

ACCESS SERVICE

6. Switched Access Service6.1 General

Switched Access Service, which is available to customers for their use in furnishing their services to end users, provides a two-point communications path between a customer designated premises and an end user's premises. It provides for the use of common terminating, switching, and trunking facilities and for the use of common subscriber plant of the Telephone Company. Switched Access Service provides for the ability to originate calls from an end user's premises to a customer designated premises, and to terminate calls from a customer designated premises to an end user's premises. Specific references to material describing the elements of Switched Access are provided in 6.1.3 and 6.5 through 6.8 following.

Rates and charges for Switched Access Service depend generally on the specific Feature Group ordered by the customer, e.g., for MTS or WATS services or MTS/WATS equivalent services. Rates and charges for Switched Access Service are set forth in 16.2 following. The application of rates for Switched Access Service is described in 6.4 following. Rates and charges for services other than Switched Access Service, e.g., a customer's toll message service, may also be applicable when Switched Access Service is used in conjunction with these other services. Descriptions of such applicability are provided in 6.4.5, 6.4.9, 6.5.1(H), 6.5.3, 6.6.1(G), 6.6.2(D), and 6.7.1(E) following. Finally, a credit is applied against line side Switched Access Service charges as described in 6.4.8 following.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Description and Provision of Switched Access Service Arrangements(A) Description

Switched Access Service is provided in three different Feature Group arrangements which are service categories of standard and optional features. These are differentiated by their technical characteristics, e.g., line side vs. trunk side connection at the Telephone Company first point of switching. They are also differentiated by optional feature availability and the manner in which the end user accesses them in originating calling, e.g., with or without access codes of various lengths and digits.

The provision of each Feature Group requires Local Transport facilities, including an Entrance Facility where required, and the appropriate End Office functions. In addition, Special Access Service may, at the option of the customer, be connected with Feature Groups A, B, or D at Telephone Company designated WATS Serving Offices.

There are two specific transmission specifications (i.e., Types B and C) that have been identified for the provision of Feature Groups. The technical specifications for the Entrance Facility and Direct Trunked Transport are the same as those set forth in Section 7, following for Voice Grade and High Capacity services. The specifications provided are dependent on the Interface Group and the routing of the service, i.e., whether the service is routed directly to the end office or via an access tandem. The parameters for the transmission specifications are set forth in 14.1.2 following.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Description and Provision of Switched Access Service Arrangements (Cont'd)(A) Description (Cont'd)

Feature Groups are arranged for either originating, terminating or two-way calling, based on the customer end office switching capacity ordered. Originating calling permits the delivery of calls from Telephone Exchange Service locations to the customer designated premises. Terminating calling permits the delivery of calls from the customer designated premises to Telephone Exchange Service locations. Two-way calling permits the delivery of calls in both directions, but not simultaneously. The Telephone Company will determine the type of calling to be provided unless the customer requests that a different type of directional calling is to be provided. In such cases, the Telephone Company will work cooperatively with the customer to determine the directionality.

There are various optional features associated with Local Transport, Common Switching and Transport Termination available with the Feature Groups. In addition, the Interim 900 NXX Translation optional feature is available with and Feature Group D.

Detailed descriptions of each of the available Feature Groups are set forth in 6.5 through 6.7 following. Each Feature Group is described in terms of its specific physical characteristics and calling capabilities, the optional features available for use with it and the standard testing capabilities.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.1 Description and Provision of Switched Access Service Arrangements (Cont'd)(A) Description (Cont'd)

The Common Switching and Transport Termination optional features, which are described in 6.8.1 following, unless specifically stated otherwise, are available at all Telephone Company end office switches.

(B) Manner of Provision

Switched Access is furnished in quantities of lines or trunks. FGA Access and FGB Access are furnished on a per-line or per-trunk basis respectively. FGD is provided to customers on a per trunk basis as set forth in 5.2 preceding.

6.1.2 Ordering Options and Conditions

Switched Access Service is ordered under the Access Order provisions set forth in 5.2 preceding. Also, included in that section are regulations concerning miscellaneous service order charges which may be associated with Switched Access Service ordering (e.g., Service Date Changes, Cancellations, etc.).

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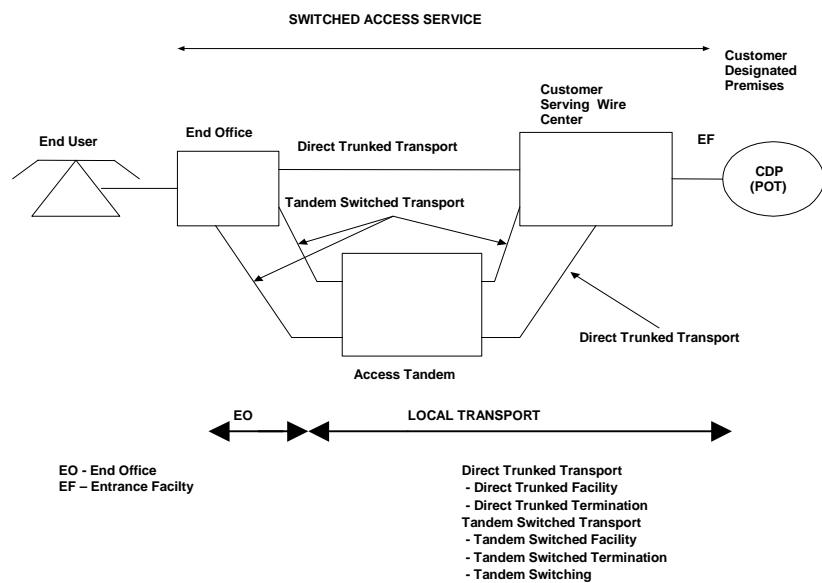
6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories

There are three rate categories which apply to Switched Access Service: (C)

- Local Transport (described in 6.1.3(A) following)
- End Office (described in 6.1.3(B) following)
- Chargeable Optional Features (described in 6.1.3(c) following)

(D)

The following diagram depicts a generic view of the components of Switched Access Service and the manner in which the components are combined to provide a complete Access Service.



(C)

(D)

(D)

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport

The Local Transport rate category establishes the charges related to the transmission and tandem switching facilities between the customer designated premises and the end office switch(es), which may be a Remote Switching Module, where the customer's traffic is switched to originate or terminate the customer's communications. Mileage measurement rules are set forth in 6.4.6 following and in this section.

Local Transport is a two-way voice frequency transmission path composed of facilities determined by the Telephone Company. The two-way voice frequency transmission path permits the transport of calls in the originating direction (from the end user end office switch to the customer designated premises) and in the terminating direction (from the customer designated premises to the end office switch), but not simultaneously. The voice frequency transmission path may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz. The customer must specify the choice of facilities (i.e., Voice Grade 2 or 4 wire or High Capacity DS1 or DS3) to be used in the provision of the Direct Trunked Transport or Entrance Facility.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Continued)

The customer must specify when ordering (1) whether the service is to be directly routed to an end office switch or through an access tandem switch, (2) the type of Direct Trunked Transport and whether it will overflow to Tandem Switched Transport when service is directly routed to an end office, (3) the type of Entrance Facility, (4) the directionality of the service, and (5) when multiplexing is required, the hub(s) at which the multiplexing will be provided.

Additionally, when service is to be routed through an access tandem switch, the customer must specify whether the facility between the serving wire center and the tandem is to be provided as Direct Trunked Transport or Tandem Switched Transport.

When the customer has both Tandem Switched Transport and Direct Trunked Transport at the same end office, the customer will be provided Alternate Traffic routing as set forth in 6.4.6 following.

Local Transport is provided at the rates and charges set forth in 6.2.2 following. The application of these rates with respect to individual Feature Groups is as set forth in 6.4.1(C) following. When more than one Telephone Company is involved in providing the Switched Access Service, the Local Transport rates are applied as set forth in 2.4.7 preceding.

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6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Continued)

The Local Transport Rate Category includes four classes of rate elements: (1) Entrance Facility, (2) Direct Trunked Transport, (3) Tandem Switched Transport, and (4) Multiplexing. (C)
(C)
(C)

(1) Entrance Facility

The Entrance Facility recovers a portion of the costs associated with the communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Entrance Facility is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the customer designated premises and the type of signaling capability, if any.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(1) Entrance Facility (Continued)

Three types of Entrance Facilities are available:

(1) Voice Grade 2 or 4 wire (an analog channel with an approximate bandwidth of 300 to 3000 Hz), (2) High Capacity DS1 (an isochronous serial digital channel with a rate of 1.544 Mbps) and (3) High Capacity DS3 (an isochronous serial digit channel with a rate of 44.736 Mbps). The minimum period for which a DS3 Entrance Facility is provided is twelve months.

One charge applies for each Entrance Facility that is terminated at a customer designated premises. This charge will apply even if the customer designated premises and the serving wire center are collocated in a Telephone Company building.

At customer request, their Local Transport may be connected to the Entrance Facility of another customer, providing the other customer submits a letter of authorization for this connection and assumes full responsibility for the cost of the Entrance Facility.

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6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(2) Direct Trunked Transport

The Direct Trunked Transport rate elements recover a portion of the cost associated with a communications path between a serving wire center and an end office or serving wire center and a tandem on circuits dedicated to the use of a single customer. Direct Trunked Transport is available at all ACS of Anchorage end offices.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(2) Direct Trunked Transport (Cont'd)

Three types of Direct Trunked Transport are available: (1) Voice Grade (an analog channel with an approximate bandwidth of 300 to 3000 Hz), (2) High Capacity DS1 (an isochronous serial digital channel with a rate of 1.544 Mbps) and (3) High Capacity DS3 (an isochronous serial digital channel with a rate of 44.736 Mbps). The minimum period for which a High Capacity DS3 Direct Trunked Transport is provided is twelve months.

Direct Trunked Transport rates consist of a Direct Trunked Facility rate which is applied on a per mile basis and a Direct Trunked Termination rate which is applied at each end of each measured segment of the Direct Trunked Facility (i.e., at the end office, hub, tandem and serving wire center). When the Direct Trunked Facility mileage is zero, neither the Direct Trunked Facility rate nor the Direct Trunked Termination rate will apply.

The Direct Trunked Facility rate recovers a portion of the costs of transmission facilities, including intermediate transmission circuit equipment, between the end points of the interoffice circuits.

The Direct Trunked Termination rate recovers a portion of the costs of the circuit equipment that is necessary for the termination of each end of the Direct Trunked Facility.

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6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(3) Tandem Switched Transport

The Tandem Switched Transport rate elements recover a portion of the costs associated with a communications path between a serving wire center and an end office or between a tandem and an end office on circuits that are switched at a tandem switch.

Tandem Switched Transport rates consist of a Tandem Switching rate, a Tandem Switched Facility rate, and a Tandem Switched Termination rate.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(3) Tandem Switched Transport (Cont'd)

The Tandem Switching rate recovers a portion of the costs of switching traffic through an access tandem. The Tandem Switching rate specified in 16.2.2 following is applied on a per access minute per tandem basis for all originating and all terminating minutes of use switched at the tandem.

The Tandem Switched Facility rate recovers a portion of the costs of transmission facilities, including intermediate transmission circuit equipment, between the end points of interoffice circuits. The Tandem Switched Facility rate specified in 16.2.2 following is applied on a per access minute per mile basis for all originating and terminating minutes of use routed over the facility.

The Tandem Switched Termination rate recovers a portion of the costs of circuit equipment necessary for the termination of each end of the Tandem Switched Facility. The Tandem Switched Termination rate specified in 16.2.2 following is applied on a per access minute basis (for all originating and terminating minutes of use routed over the facility) at each end of Tandem Switched Facility (e.g., at the end office, host office, remote, tandem, and serving wire center). When the Tandem Switched Facility mileage is zero, neither the Tandem Switched Facility rate nor the Tandem Switched Termination rate will apply.

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6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(A) Local Transport (Cont'd)

(D)

(D)

(4) Multiplexing

(T)

DS3 to DS1 Multiplexing charges apply when a High Capacity DS3 Entrance Facility or High Capacity DS3 Direct Trunked Facility is connected with High Capacity DS1 Direct Trunked Transport. The DS3 to DS1 multiplexer will convert a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(4) Multiplexing (Cont'd) (T)

DS1 to Voice Grade Multiplexing charges apply when a High Capacity DS1 Entrance Facility or High Capacity DS1 Direct Trunked Facility is connected with Voice Grade Direct Trunked Transport. However a DS1 to Voice Grade Multiplexing charge does not apply when a High Capacity DS1 Entrance Facility or High Capacity DS1 Direct Trunked Transport is terminated at an electronic end office and only Switched Access Service is provided over the DS1 facility (i.e., Voice Grade Special Access channels are not derived). The DS1 to Voice Grade multiplexer will convert a 1.544 Mbps channel to 24 Voice Grade channels.

Multiplexing is only available at wire centers identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, WIRE CENTER INFORMATION.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(5) Interface Groups (T)

Ten Interface Groups are provided for terminating the Entrance Facility at the customer's designated premises. Technical specifications concerning the available interface groups are set forth in 14.1 following.

(6) Nonchargeable Optional Features (T)

Where transmission facilities permit, the individual transmission path between the customer's designated premises and the first point of switching may at the option of the customer be provided with the following optional features as set forth and described in 14.1.1(E) following.

- Supervisory Signaling
- Customer Specified Entry Switch Receive Level
- Customer Specification of Local Transport Termination

When a customer subscribes to Common Channel Signaling (SS7) Network Connection Service (CCSNC Service), the following optional features are made available and are described in 6.8.1 following.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(6) Nonchargeable Optional Features (Cont'd) (T)

- Signaling System 7 (SS7) Signaling
- Calling Party Number
- Carrier Selection Parameter
- Charge Number Parameter

(7) Common Channel Signaling, Signaling System 7 (CBS/SS7) Network Connection (CCSNC) (T)

Service provides a signaling path between a customer's designated Signaling Point of Interface (SPOI) and a Telephone Company's Signaling Transfer Point (STP). CCSNC is provided as set forth in 6.8.3 following.

800 Data Base Access Service is provided to all customers in conjunction with FGD switched access service. A Basic or Vertical Feature Query charge, as set forth in 16.2.2 (B) following, is assessed for each query launched to the 800 data base. The Basic Query provides the identification of the customer to whom the call will be delivered and includes area of service routing which allows routing of originating 800 Series calls by the Telephone Company to different interexchange carriers.

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6. Switched Access Service
(Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(A) Local Transport (Cont'd)(7) Common Channel Signaling, Signaling System 7 (T)
(CBS/SS7) Network Connection (CCSNC) (Cont'd)

Query provides this same customer identification function in addition to vertical features which may include: (1) call validation (ensuring that calls originate from subscribed service areas); (2) POTS translation of 800 Series numbers (which is generally necessary for the routing of 800 Series calls); (3) alternate POTS translation (which allows subscribers to vary the routing of 800 Series calls based on factors such as time of day, place of origination of the call, etc.); and (4) multiple carrier routing (which allows subscribers to route to different carriers based on factors similar to those in (3)).

An 800 Data Base Access Service Query Charge applies for queries to the 800 data base as described in 16.2.2(C), following.

An LNP Data Base Query Charge applies for queries to the LNP data base as described in 16.2.2(D), following.

(B) End Office

The End Office rate category establishes the charges related to the local end office switching and end user termination functions necessary to complete the transmission of Switched Access communications to and from the end users served by the local end office. The End Office rate category includes the Local Switching and Information Surcharge rate elements. Directory Assistance Service is set forth in Section 9. following.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(B) End Office (Cont'd)(1) Local Switching

The Local Switching rate element establishes the charges related to the use of end office switching equipment, the terminations in the end office of end user lines, and the terminations of calls at Telephone Company Intercept Operators or recordings.

Local Switching is applicable to:

- Feature Group D,
- Feature Group B when utilized to provide MTS/WATS service,
- Feature Groups A and B used for terminating inward WATS and WATS-type service at an equal access WATS Serving Office.

Where end offices are appropriately equipped, international dialing may be provided as a capability associated with Local Switching which provides local dial switching for Feature Group D. International dialing provides the capability of switching international calls with service prefix and address codes having more digits than are capable of being switched through a standard Feature Group D equipped end office.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(B) End Office (Cont'd)(1) Local Switching (Cont'd)

Rates for Local Switching are set forth in 16.2.3 following. The application of this rate with respect to individual Feature Groups is as set forth in 6.4.1(C) following.

There are four types of functions included in the Local Switching rate element: Common Switching, Transport Termination, Line Termination and Intercept. These are described in (a) through (d) following.

(a) Common Switching

Common Switching provides the local end office switching functions associated with the various access (i.e., Feature Group) switching arrangements. The Common Switching arrangements provided for the various Feature Group arrangements are described in 6.5 through 6.7 following.

Included as part of Common Switching are various nonchargeable optional features which the customer can order to meet the customer's specific communications requirements. These optional features are described in 6.8.1 following.

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6. Switched Access Service (Cont'd)

6.1 General (Cont'd)

6.1.3 Rate Categories (Cont'd)

(B) End Office (Cont'd)

(1) Local Switching (Cont'd)

(b) Transport Termination

Transport Termination functions provide for the line or trunk side arrangements which terminate the Local Transport facilities. Included as part of these functions are various nonchargeable optional termination arrangements. These optional terminating arrangements are described in 6.8.1 following.

The number of Transport Terminations provided will be determined by the Telephone Company as set forth in 6.2.5 following.

(c) Line Termination

Line Termination provides for the terminations of end user lines in the local end office. There is one type of Line Termination, Special Access Service Termination, which is utilized in the provision of WATS or WATS-type services at Telephone Company designated WATS Serving Offices.

(C)

(C)

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(B) End Office (Cont'd)(1) Local Switching (Cont'd)(c) Line Termination (Cont'd)

The preceding Special Access Service Terminations are differentiated by line side vs. trunk side terminations. In addition, there are various types of originating and terminating line side terminations depending on the type of signaling associated with the Special Access Service. Line side terminations are available with either dial pulse or dual tone multifrequency address signaling.

(d) Intercept

The Intercept function provides for the termination of a call at a Telephone Company Intercept operator or recording. The operator or recording tells a caller why a call, as dialed, could not be completed, and if possible, provides the correct number.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(B) End Office (Cont'd)(2) Information Surcharge

Information Surcharge rates are assessed to a customer based on the total number of access minutes. Information Surcharge rates are as set forth in 16.2.3(B) following. The application of these rates with respect to individual Feature Groups is as set forth in 6.4.1(C) following.

The information Surcharge does not apply to Feature Groups B and D Switched Access Services associated with Mobile Telephone Switching Offices (MTSOs) directly interconnected to a Telephone Company access tandem office.

The number of end office switching transmission paths will be determined as set forth in 6.2.5 following.

(C) Chargeable Optional Features

Where facilities permit, the Telephone Company will, at the option of the customer, provide the following chargeable optional features.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(C) Chargeable Optional Features (Cont'd)(1) Interim 900 NXX Translation

The Interim 900 NXX Translation rate element provides for customer identification when calls are directed by end users in the 1+SAC+NXX-XXXX (e.g., 1+900+NXX-XXXX) format. The NXX codes are assigned to specific customers in conformance with the North American Numbering Plan (NANP). NXX code assignment(s) will be made by the Bellcore NANP Coordinator. The

Telephone Company will use the NXX code to identify the customer to whose point of termination the traffic is to be delivered, (i.e., at appropriately equipped electronic end offices, access tandems or through contracted arrangements with other parties.) It is then the responsibility of the customer to do any further translation the customer deems necessary to route the call. Customer assigned NXX codes which have not been ordered will be blocked.

A nonrecurring charge, as set forth in 16.2.1 following, is associated with this optional feature. This nonrecurring charge is assessed by the Telephone Company on a per order, applied in lieu of the Access Order Charge specified in 16.4.1(A) following. The nonrecurring charge is assessed

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(C) Chargeable Optional Features (Cont'd)(1) Interim 900 NXX Translation (Cont'd)

only by the Telephone Company that provides the final translation function. A Telephone Company is said to have provided the final Interim NXX Translation when its translation identifies the customer's traffic and this traffic is then delivered to the customer's point of termination without any further translation. The description and application of this charge with respect to Feature Group D is as set forth in 6.4.1(B)(2) and 6.4.1(C) following.

(2) 800 Data Base

800 Data Base Access Service is provide to all customers in conjunction with FGD switched access service. When a 1+800 Series-NXX-XXXX call is originated by an end user, the Telephone Company will utilize the Signaling System 7 (SS7) network to query an 800 Series data base to identify the customer to whom the call will be delivered and provide vertical features based on the dialed ten digits. The call will then be routed to the identified customer over FGD switches access.

A Basic or Vertical Feature Query charge, as set forth in 16.2.2(B) following, is assessed for each query launched to the data base which identifies the customer to whom the call will be delivered.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.3 Rate Categories (Cont'd)(C) Chargeable Optional Features (Cont'd)(2) 800 Data Base (Cont'd)

The Basic Query provides the identification of the customer to whom the call will be delivered and includes area of service routing which allows routing of originating 800 Series calls by the Telephone Company to different interexchange carriers. The Vertical Feature Query provides the same customer identification as the basic query and vertical features which may include: (1) call validation, (ensuring that calls originate from subscribed service areas); (2) POTS translation of 800 Series numbers; (3) alternate POTS translation (which allows subscribers to vary the routing of 800 Series (calls based on factors such as time of day, place or origination of the call, etc.); and (4) multiple carrier routing (which allows subscribers to route to different carriers based on factors similar to those in (3).

The description and application of this charge with respect to Feature Group D is as set forth in 6.4.1(C) following.

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6. Switched Access Service (Cont'd)6.1 General (Cont'd)6.1.4 Special Facilities Routing

Any customer may request that the facilities used to provide Switched Access Service be specially routed. The regulations for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are set forth in Section 11 following.

6.1.5 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the makeup of the facilities and services provided from the customer's premises to the first point of switching. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

6.2 Undertaking of the Telephone Company

In addition to the obligations of the Telephone Company set forth in Section 2 preceding, the Telephone Company has certain other obligations concerning only the provision of Switched Access Service. These obligations are as follows:

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6. Switched Access Service (Cont'd)6.2 Undertaking of the Telephone Company (Cont'd)6.2.1 Network Management

The Telephone Company will administer its network to insure the provision of acceptable service levels to all telecommunications users of the Telephone Company's network services. Generally, service levels are considered acceptable only when both end users and customers are able to establish connections with little or no delay encountered within the Telephone Company network. The Telephone Company maintains the right to apply protective controls, i.e., those actions, such as call gapping, which selectively cancel the completion of traffic, over any traffic carried over its network, including that associated with a customer's Switched Access Service. Generally, such protective measures would only be taken as a result of occurrences such as failure or overload of Telephone Company or customer facilities, natural disasters, mass calling or national security demands. In the event that the protective controls applied by the Telephone Company result in the complete loss of service by the customer, the customer will be granted a Credit Allowance for Service Interruption as set forth in 2.4.4(B)(3) preceding.

6.2.2 Transmission Specifications

Each Switched Access Service transmission path is provided with standard transmission specifications. There are three different standard specifications (Types A, B and C). The standard for a particular transmission path is dependent on the Feature Group, the Interface Group and whether the service is

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6. Switched Access Service (Cont'd)6.2 Undertaking of the Telephone Company (Cont'd)6.2.2 Transmission Specifications (Cont'd)

directly routed or via an access tandem. The available transmission specifications are set forth in 14.1.2 following. Data Transmission Parameters are also provided with each Switched Access Service transmission path. The Telephone Company will, upon notification by the customer that the data parameters set forth in 14.1.3 following are not being met, conduct tests independently or in cooperation with the customer, and take any necessary action to insure that the data parameters are met.

The Telephone Company will maintain existing transmission specifications on functioning service configurations installed prior to May 25, 1984, except that service configurations having performance specifications exceeding the standards set forth in 14.1.2 following will be maintained at the performance levels specified.

The transmission specifications concerning Switched Access Service are limits which, when exceeded, may require the immediate corrective action of the Telephone Company. The transmission specifications are set forth in 14.1.2 following. Acceptance limits are set forth in Technical Reference TR-NWT-000334. This Technical Reference also provides the basis for determining Switched Access Service maintenance limits.

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6. Switched Access Service (Cont'd)6.2 Undertaking of the Telephone Company (Cont'd)6.2.3 Provision of Service Performance Data

Subject to availability, end-to-end service performance data available to the Telephone Company through its own service evaluation routines, may also be made available to the customer based on previously arranged intervals and format. These data provide information on overall end-to-end call completion and non-completion performance, e.g., customer equipment blockage, failure results and transmission performance. These data do not include service performance data which are provided under other tariff sections, e.g., testing service results. If data are to be provided in other than paper format, the charges for such exchange will be determined on an individual case basis.

6.2.4 Testing(A) Acceptance Testing

At no additional charge the Telephone Company will, at the customer's request, cooperatively test at the time of installation, the following parameters: loss, C-notched noise, C-message noise, 3-tone slope, d.c. continuity and operational signaling. When the Local Transport is provided with Interface Groups 2 through 10, and the Transport Termination is two-wire (i.e., there is a four-wire to two-wire conversion in Local Transport), balance parameters (equal level echo path loss) may also be tested.

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6. Switched Access Service (Cont'd)

6.2 Undertaking of the Telephone Company (Cont'd)

6.2.4 Testing (Cont'd)

(B) Routine Testing

At no additional charge, the Telephone Company will, at the customer's request, test after installation on an automatic or manual basis, 1004 Hz loss, C- message noise and Balance (Return loss).

In the case of automatic testing, the customer shall provide remote office test lines and 105 test lines with associated responders or their functional equivalent.

The frequency of these tests will be that which is mutually agreed upon by the customer and the Telephone Company, but shall consist of not less than quarterly 1004 Hz Loss and C-message noise tests and an annual Balance test. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

Additional tests may be ordered as set forth in 13.3.1 following. Charges for these additional tests are set forth in 16.4.4 following.

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6. Switched Access Service (Cont'd)6.2 Undertaking of the Telephone Company (Cont'd)6.2.5 Determination of Number of Transmission Paths

For Feature Groups A and B, which are ordered on a per line or per trunk basis respectively, and Feature Group D when ordered on a per trunk basis, the customer specifies the type of transport facilities and the number of channels in the order for service.

For Tandem Switched Transport, the Telephone Company will determine the number of Switched Access Service transmission paths to be provided for Switched Access Feature Group D. The number of transmission paths provided shall be the number required based on (1) the use of access tandem switches and end office switches, (2) the use of the end office switches only, or (3) the use of the tandem switches only.

6.2.6 Trunk Group Measurement Reports

Subject to availability, the Telephone Company will make available trunk group data in the form of usage in CBS, peg count and overflow, to the customer based on previously agreed to intervals.

6.3 Obligations of the Customer

In addition to the obligations of the customer set forth in 2.3 preceding, the customer has certain specific obligations pertaining to the use of Switched Access Service. These obligations are as follows:

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3 Obligations of the Customer (Cont'd)6.3.1 Report Requirements

Customers are responsible for providing the following reports to the Telephone Company, when applicable.

(A) Jurisdictional Reports

When a customer orders Switched Access Service for both interstate and intrastate use, the customer is responsible for providing reports as set forth in 2.3.11 preceding. Charges will be apportioned in accordance with those reports. The method to be used for determining the interstate charges is set forth in 2.3.12 preceding.

(B) Code Screening Reports

When a customer orders service class routing, trunk access limitation or call gapping arrangements, it must report the number of trunks and/or the appropriate codes to be instituted in each end office or access tandem switch for each of the arrangements ordered.

6.3.2 Trunk Group Measurement Reports

With the agreement of the customer, trunk group data in the form of usage in CBS, peg count and overflow for its end of all access trunk groups, where technologically feasible, will be made available to the Telephone Company. These data will be used to monitor trunk group utilization and service performance and will be based on previously arranged intervals and format.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.3.3 Supervisory Signaling

The customer's facilities shall provide the necessary on-hook, off-hook, answer and disconnect supervision.

6.3.4 Short Duration Mass Calling Requirements

When a customer offers service for which a substantial call volume is expected during a short period of time (e.g., 900 service media stimulated events), the customer must notify the Telephone Company at least 48 hours in advance of each peak period. Notification should include the nature, time, duration, and frequency of the event, an estimated call volume, and the telephone number(s) to be used.

On the basis of the information provided, the Telephone Company may invoke network management controls, (e.g., call gapping and code blocking) to reduce the probability of excessive network congestion. The Telephone Company will work cooperatively with the customer to determine the appropriate level of such control.

6.4 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Switched Access Service.

6.4.1 Description and Application of Rates and Charges

There are two types of rates and charges that apply to Switched Access Service; recurring (usage and flat rates) and nonrecurring charges. These rates and charges are applied differently to the various rate elements as set forth in (C) following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(A) Recurring Rates

- (1) Usage Rates for Switched Access Service are rates that apply on a per access minute or a per call basis. Access minute charges per call charges are accumulated over a monthly period.
- (2) Flat Rates for Switched Access Service are rates that apply on a per month rate element basis.

(B) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for a specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Switched Access Service are: installation of service, Interim 900 NXX Translation optional feature and service rearrangements. These charges, with the exception of the Interim 900 NXX Translation optional feature, are in addition to the Access Order Charge as specified in 16.4.1(A) following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(B) Nonrecurring Charges (Cont'd)(1) Installation of Service

A Local Transport nonrecurring installation charge, as set forth in 16.2.1(A) following, will be applied at the serving wire center for each Entrance Facility installed. Additionally, a nonrecurring trunk activation charge as set forth in 16.2.1(E) following, will be applied at each end office when ordered to the end office on a per order per end office basis or at the tandem when ordered to the tandem for each group of 24 Direct Trunked Transport trunks or fraction thereof that is activated (i.e., designated by the customer to carry switched access). A maximum of 24 trunks can be activated on a DS1 facility and a maximum of 672 trunks can be activated on a DS3 facility.

For example, if a customer orders a DS1 Entrance Facility and requests activation of 18 of the available circuits, the customer will be charged one Local Transport High Capacity DS1

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(B) Nonrecurring Charges (Cont'd)(1) Installation of Service (Cont'd)

Installation nonrecurring charge at the serving wire center and one Direct Trunked Transport Activation nonrecurring charge at the end office. If at a later date the customer requests the activation of three more circuits, the customer will then be charged an additional Direct Trunked Transport Activation nonrecurring charge. These charges are in addition to the Access Order Charge as specified in 16.4.1(A) following.

(2) Interim 900 NXX Translation Optional Feature

This nonrecurring charge applies to the initial order for the installation of the Interim 900 NXX Translation optional feature with Feature Group D Switched Access Service and for each subsequent order received to add or change 900 NXX translation codes. This charge, if applicable, applies whether this optional feature is installed coincident with or at any time subsequent to the installation of Switched Access Services. This charge is applied by the

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(B) Nonrecurring Charges (Cont'd)

(2) Interim 900 NXX Translation Optional Feature
(Cont'd)

Telephone Company per order. When it is necessary for multiple telephone companies to provide the translation function, the nonrecurring charge is assessed only by the Telephone Company that provides the final translation function which identifies the customer's traffic and this traffic is then delivered to the customer's point of termination without any further translation.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(B) Nonrecurring Charges (Cont'd)(2) Interim 900 NXX Translation Optional Feature
(Cont'd)

applied by the Telephone Company per order. When it is necessary for multiple telephone companies to provide the translation function, the nonrecurring charge is assessed by only the Telephone Company that provides the final translation function which identifies the customer's traffic and this traffic is then delivered to the customer's point of termination without any further translation.

(3) Service Rearrangements

All changes to existing services other than changes involving administrative activities and the off-hook supervisory signaling of FGA Access Services, will be treated as a discontinuance of the existing service and an installation of a new service. The nonrecurring charge described in (1) preceding will apply for this work activity. Moves that change the physical location of the point of termination are described and charged as set forth in 6.4.4 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(B) Nonrecurring Charges (Cont'd)(3) Service Rearrangements (Cont'd)

- If, due to technical limitations of the Telephone Company, a customer could not combine its Interim NXX traffic with its other trunk side Switched Access Services, no charge shall apply to combine these trunk groups when it becomes technically possible.

Administrative changes will be made without charge(s) to the customer. Administrative changes are as follows:

- Change of customer name,
- Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
- Change in billing date (name, address, or contact name or telephone number),
- Change in billing date (name, address, or contact name or telephone number),
- Change of agency authorization,

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(B) Nonrecurring Charges (Cont'd)(3) Service Rearrangements (Cont'd)

- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction.

Other changes made without charge to the customer are as follows:

- Changes and additions to existing Switched Access Services which are necessary due to Telephone Company initiated network reconfiguration, and required to provide the same grade of service to the customer that existed prior to the reconfiguration, will be made without charge to the customer.

Charges will apply to those changes and additions which are in excess of those required to provide the same grade of service and/or capacity. Grade of service will be as determined by industry standard engineering tables.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(B) Nonrecurring Charges (Cont'd)(3) Service Rearrangements (Cont'd)

- When a customer requests a change of trunks from tandem-switched transport to direct-trunked transport or from direct-trunked transport to tandem-switched transport, or requests to rearrange Switched Access service between lower capacity and higher capacity facilities (e.g., voice grade to/from DS-1 or DS-1 to/from DS-3), the nonrecurring charges set forth in (1) preceding do not apply providing:
- the change is ordered no later than July 1, 1994 and
- the change is completed no later than October 1, 1994, and
- the orders to disconnect existing trunks and to connect the new trunks are placed at the same time, and
- the number of installed trunks does not exceed the number of trunks disconnected, all non-recurring charges will apply to the excess trunks unless the customer provides justification based upon standard engineering methods to show that the additional capacity is required to maintain the same level of service.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

B) Nonrecurring Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

Changes to the point in time when the off-hook supervisory signal is provided in the originating call sequence i.e., when the off-hook supervisory signal is changed from being provided by the customer's equipment before the called party answers to being forwarded by the customer's equipment when the called party answers or vice versa, are subject to the Access Order Charge as set forth in 16.4.1(A) following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(B) Nonrecurring Charges (Cont'd)(3) Service Rearrangements (Cont'd)

For additions, changes or modifications to an optional feature which has a separate nonrecurring charge, that nonrecurring charge will apply.

For additions, changes, or modifications to optional features that do not have their own separate nonrecurring charges, an Access Order Charge as set forth in 16.4.1(A) following will apply. When an optional feature is not required on each transmission path, but rather for an entire transmission path group, an end office or an access tandem switch, only one such charge will apply (i.e., it will not apply per transmission path).

For conversion of FGD trunks from multifrequency address signaling to SS7 signaling or from SS7 signaling to multifrequency address signaling, nonrecurring charges will apply as set forth in 16.2.1(C).

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(C) Application of Rates

Rates are applied as premium rates.

The application of these rates is dependent upon the Feature Group, type of Entrance Facility, and type of transport (e.g., Direct Trunked Transport, Tandem Switched Transport, type of Multiplexing).

The following rules provide the basis for applying the rates and charges:

(1) Premium Rates

Premium rates apply to all access minutes that originate or terminate at end offices equipped with equal access (i.e., FGD) capabilities and to Directory Transport Service. Premium rates also apply to FGB and FGD access minutes that originate or terminate at a Mobile Telephone Switching Office (MTSO) that is directly connected to a Telephone Company access tandem office. In addition, premium rates apply to FGB access minutes when utilized in the provision of MTS/WATS service.

Premium rates will apply to all of the flat rated rate elements (i.e., Entrance Facility, Direct Trunked Facility, Direct Trunked Termination, and Multiplexing).

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.1 Description and Application of Rates and Charges (Cont'd)

(C) Application of Rates - (Cont'd)

(2) Common Channel Signaling/Signaling System 7
(CBS/SS7) Network Connection

The CBS/SS7 Network Connection is comprised of a Signaling Mileage Facility charge, a Signaling Mileage Termination charge, a Signaling Entrance Facility charge, and a Signaling Transfer Point (STP) Port charge.

6. Switched Access Service (Cont'd)

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6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(C) Application of Rates(2) Common Channel Signaling/Signaling System 7 (CBS/SS7) Network Connection (Cont'd)

The Signaling Mileage Facility charge is assessed on a per facility per mile basis. The Signaling Mileage Termination charge is assessed on a per termination basis (i.e., at each end of the Signaling Mileage Facility). When the Signaling Mileage Facility mileage measurement is zero, Signaling Mileage Termination charges do not apply.

The Signaling Entrance Facility charge is assessed on a per facility basis for the connection between the customer's designated premises (Signaling Point of Interface) and the serving wire center of that premises.

The STP Port charge is assessed on a per port basis for each termination of a Signaling Mileage Facility at an STP.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(C) Application of Rates (Cont'd)(3) 800 Data Base Access Service

A Basic Query or Vertical Feature Query charge applies for each query that is launched to an 800 data base and identifies the customer to whom the call will be delivered. Query charges, as set forth in 16.2.2(B), will only be applied by those companies whose wire centers are identified as assessing query charges in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. No. 4.

When Feature Group D switched access service is used for the provision of 800 Data Base Access Service and the total minutes of use and/or count of queries can be determined for each customer at a tandem or SSP but can not be determined by individual end office, an allocation method will be utilized to determine minutes of use and/or queries by end office and customer. For each end office a

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(C) Application of Rates (Cont'd)(3) 800 Data Base Access Service (Cont'd)

ratio will be developed and applied against the total minutes of use and/or count of queries for a given customer as determined by the tandem or SSP. These ratios will be developed by dividing the unidentified originating 800 series minutes of use at an end office by the total unidentified originating minutes of use in all end offices subtending the tandem or SSP. For example, assume:

- Three end offices (EO-1, EO-2, and EO-3) subtend a tandem

EO-1 measures 2,000 minutes of 800 use	
EO-2 measures 3,000 minutes of 800 use	
EO-3 measures <u>5,000</u> minutes of 800 use	
10,000	TOTAL

- The tandem delivers 800 usage to two customers:

IC-A has 4,000 minutes of use
IC-B has 6,000 minutes of use

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(C) Application of Rates (Cont'd)(3) 800 Data Base Access Service (Cont'd)

- The allocation ratio for EO-1 is 20%
2,000/10,000
- The minutes of use to be billed by EO-1 are
800 to IC-A (20% X 4,000)
1,200 to IC-B (20% X 6,000)
2,000 TOTAL

(4) Shared Transport

Shared Transport refers to a rate application that is applicable only when the customer orders High Capacity Direct Trunked Transport between a serving wire center and a Telephone Company hub where the Telephone Company performs multiplexing/de-multiplexing functions and the same customer then orders the derived channels as Direct Trunked Transport and Tandem Switched Transport. When the same customer also orders Special Access Service to be provided over this same high capacity facility, this service is considered to be Mixed Use and the regulations set forth in 7.2.7 following must first be applied to separate the portion to be charged as Switched Access Service from the portion to be charged as Special Access Service.

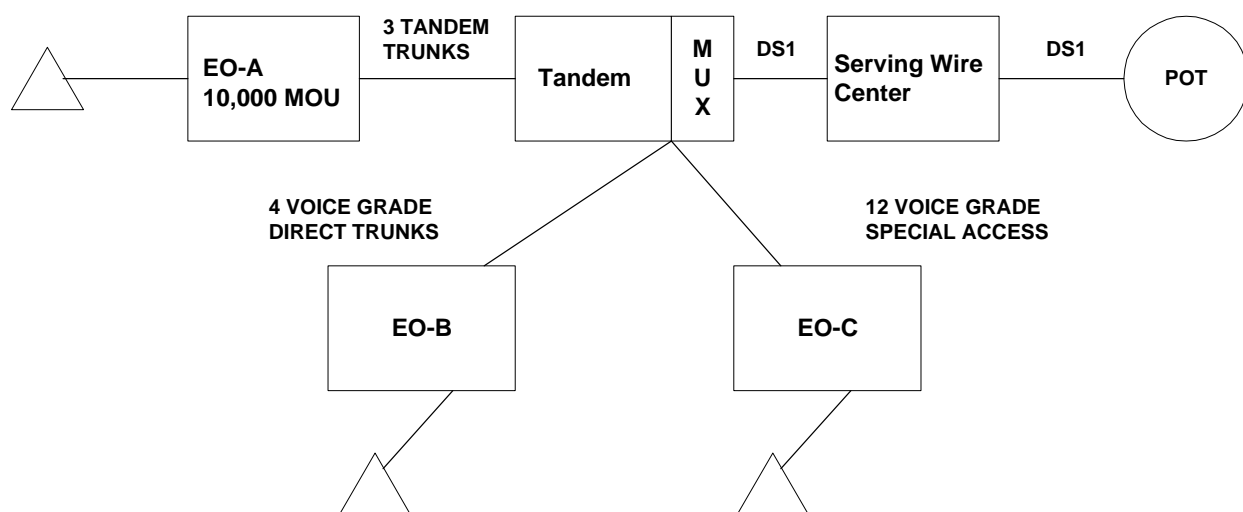
ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(C) Application of Rates (Cont'd)(4) Shared Transport (Cont'd)

Except as noted previously, the Switched Access Service will be ordered, provided and rated as Direct Trunked Transport (i.e., Direct Trunked Facility and Direct Trunked Termination). As each derived channel is activated for Tandem Switched Transport, the High Capacity Direct Trunked Transport and Multiplexing rates will be reduced accordingly (e.g., 1/24th for a High Capacity DS1 service, 1/672nd for a High Capacity DS3 service, etc.). Tandem Switched Transport rates and charges, as set forth in 16.2.2 following, will apply for each channel that is used to provide the Tandem Switched Transport.

The following example, while not all inclusive, illustrates the application of the Shared Transport provisions cited above and the Mixed Use provision set forth in 7.2.7 following. The sample calculations explained on page 6-41.02 depict the application of charges as they apply to the shared facilities only. All other rate elements that would apply to this example (e.g., End Office, Voice Grade Direct Trunked Transport from EO-B to the Tandem, Voice Grade Channel Mileage from EO-C to the Tandem, etc.) are billed as described elsewhere in this tariff. (C)

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(C) Application of Rates (Cont'd)(4) Shared Transport (Cont'd)

Assume:

The customer orders:

- 3 tandem routed Switched Access trunks to End Office-A (EO-A)
- 4 direct routed Switched Access trunks to End Office-B (EO-B)
- 12 Voice Grade Special Access channels to End Office-C (EO-C)
- 1 DS1 facility between their POT and the Tandem/Multiplexer
- Usage at EO-A is 10,000 Minutes of Use (MOU)

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(C) Application of Rates (Cont'd)(4) Shared Transport (Cont'd)Calculation of Charges POT to Serving Wire Center

Since this facility carries both Switched and Special Access Services, the Mixed Use provisions set forth in 7.2.7 following must be applied. This service is initially ordered and rated as a Special Access DS1 High Capacity Channel Termination (DS1-CT). This Special Access Charge is then reduced for each activated Switched Access Service. High Capacity DS1 Entrance Facility (DS1-EF) charges apply for the portion of this service that is activated for Switched Access Service.

DS1-CT charge - DS1-CT rate x (capacity of a DS1 minus the number of activated Switched Access Services)/(capacity of a DS1)

- DS1-CT rate x (24 - 7)/(24)
- DS1-CT rate x (17/24)

DS1-EF charge - DS1-EF rate x (number of activated Switched Access Services)/(capacity of a DS1)

- DS1-EF rate x (7/24)

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(C) Application of Rates (Cont'd)(4) Shared Transport (Cont'd)Calculation of Facility Charges from Serving Wire Center to Tandem and Multiplexer

Since the interoffice facility and the multiplexer both carry Switched and Special Access Services, they must first be apportioned between these two categories by applying the Mixed Use provisions set forth in 7.2.7 following. Using the same ratios calculated above, the Special Access DS1 High Capacity Channel Mileage Facility (DS1-CMF), Channel Mileage Termination (DS1-CMT), and Multiplexer (Spcl.-MUX) charges are:

DS1-CMF - DS1-CMF rate x airline miles
between Tandem/Multiplexer
and Serving Wire Center x
(17/24)

DS1-CMT - DS1-CMT rate x 2 terminations x
(17/24)

Spcl.-MUX - DS1 to Voice Grade multiplexer
rate x (17/24)

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(C) Application of Rates (Cont'd)(4) Shared Transport (Cont'd)Calculation of Facility Charges from Serving Wire Center to Tandem and Multiplexer (Cont'd)

After applying the Mixed Use provisions to determine the Switched Access portion of these facilities, the Switched Access Facilities must then be apportioned between direct routed and tandem routed. This is accomplished by subtracting the portion of channels used for tandem routing from the portion of Switched Access channels. The remaining portion of channels are considered direct routed.

The Direct Trunked Facility (DS1-DTF), Direct Trunked Termination (DS1-DTT) and Switched Access Multiplexer (Sw-MUX) charges are:

- DS1-DTF - DS1-DTF rate x airline miles between Tandem/Multiplexer and Serving Wire Center x ((number of activated Switched Access Services/capacity of a DS1) minus (number of channels activated for Tandem Switched Transport/capacity of a DS1))
- DS1-DTF rate x miles x ((17/24 - (3/24))
- DS1-DTF rate x miles x (4/24)
- DS1-DTT - DS1-DTT rate x 2 terminations x same ratio of (4/24)
- Sw.-MUX - DS1 to Voice Grade multiplexer rate x same ratio of (4/24)

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.1 Description and Application of Rates and Charges (Cont'd)(C) Application of Rates (Cont'd)(4) Shared Transport (Cont'd)Tandem Routing Charges (EO-A to Serving Wire Center)

No adjustments are used to calculate the Tandem Switched Facility (TSF), Tandem Switched Termination (TST), or Tandem Switching charges. They are calculated as follows:

TSF - TSF rate x airline miles between EO-A and the serving wire center x 10,000 MOU

TST - TST rate x 2 termination x 10,000 MOU

TS - TS rate x 10,000 MOU

6.4.2 Minimum Monthly Charge

Switched Access Service is subject to a minimum monthly charge. The minimum charge applies for the total capacity provided. The minimum monthly charge is calculated as follows.

For usage rated Local Transport, Local Switching and Information Surcharge rate elements, the minimum monthly charge is the sum of the recurring charges set forth in 16.2.2 and 16.2.3 following for either the actual measured usage or the assumed usage prorated to the number of days or major fraction of days based on a 30 day month.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.4 Rate Regulations (Cont'd)

6.4.2 Minimum Monthly Charge (Cont'd)

For flat rated Local Transport rate elements, the minimum monthly charge is the sum of the recurring charges set forth in 16.2.2 following prorated to the number of days or major fraction of days on a 30-day month.

6.4.3 Change of Switched Access Service Arrangements

Changes from one type of Feature Group to another will be treated as a discontinuance of one type of service and a start of another. Nonrecurring charges will apply.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.4 Moves

A move involves a change in the physical location of one of the following:

- The point of termination at the customer designated premises
- The customer designated premises

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the installation nonrecurring charge for the capacity affected. This charge is in addition to the Access Order Charge as specified in 16.4.1(A) following. There will be no change in the minimum period requirements.

(B) Moves to a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new service. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.5 Local Information Delivery Services

Calls over Switched Access Service in the terminating direction to certain community information services will be rated under the applicable rates for Switched Access Service as set forth in 16.2 following.

6.4.6 Mileage Measurement

The mileage to be used to determine the monthly rate for Local Transport is calculated on airline distances between the end office switch, which may be a Remote Switching Module (where the call carried by Local Transport originates or terminates) and the customer's serving wire center. When Tandem Switched Transport or Direct Trunked Transport is ordered between the serving wire center and the end office, mileage is normally measured in one segment from the serving wire center to the end office. When Direct Trunked Transport is ordered between a serving wire center and a tandem and Tandem Switch Transport is ordered between the tandem and the end office, mileage is calculated separately for each segment. Exceptions to these methods are as set forth in (A) through (G) following. For SS7 signaling, the mileage to be used to determine the monthly rate for the Signaling Mileage Facility is calculated on the airline distance between the serving wire center associated with the customer's designated premises (Signaling Point of Interface) and the Telephone Company wire center providing the STP Port.

Where applicable, the V&H coordinates method is used to determine mileage. This method is set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 for Wire Center Information (V&H coordinates).

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.6 Mileage Measurement (Cont'd)

Mileage rates are as set forth in 16.2.2 following. To determine the rate to be billed, first compute the airline mileage using the V&H coordinates method. If the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage and applying the rates. Then multiply the mileage by the appropriate rate. Exceptions to the mileage measurement rules are as follows:

(A) Feature Group A - Originating Usage

Direct Trunked Transport Mileage for premium rated access minutes in the originating direction over Feature Group A Switched Access Service will be calculated on an airline basis, using the V&H coordinates method. The mileage measurement will be between the first point of switching (end office switch where the Feature Group A switching dial tone is provided) and the customer's serving wire center for the Switched Access Service provided.

(B) Feature Group A Terminating Usage

The Local Transport mileage for terminating Feature Group A Switched Access Service will be measured in two segments. Direct Trunked Transport mileage will be measured between the customer's serving wire center and the first point of switching (i.e., the end office switch where the Feature Group A switching dial tone is provided). Tandem Switched Transport mileage will be measured between the first point of switching and the terminating end office.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.6 Mileage Measurement (Cont'd)(C) Feature Group B and D - Alternate Traffic Routing

When the Alternate Traffic Routing optional feature is provided with Feature Group B or D, the Local Transport access minutes will be apportioned between the two trunk groups used to provide this feature. Such apportionment will be made using: (1) actual minutes of use if available, (2) standard Telephone Company traffic engineering methodology and will be based on the last trunk CBS desired for the high usage group, as described in 6.8.1(I) following (Alternate Traffic Routing), when the feature is provided at an end office switch, or the subtending end offices when the feature is provided at an access tandem switch or (3) an apportionment mutually agreed to by the Telephone Company and the customer. This apportionment will serve as the basis for Local Transport calculation.

(D) Feature Groups A, B, and D - WATS

The Local Transport Facility for Feature Groups A, B, and D Switched Access Service connected with Special Access Service at a WATS Serving Office will be measured between the WATS Serving Office and the serving wire center for the customer designated premises.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.6 Mileage Measurement (Cont'd)(E) Feature Groups B and D - MTSOs Directly Interconnected to Access Tandems

The Local Transport mileage for Feature Groups B and D switched access services provided to Mobile Telephone Switching Offices (MTSOs) directly interconnected to a Telephone Company access tandem office will be determined on an airline basis, using the V&H coordinate method. The mileage will be measured between the customer's serving wire center and the Telephone Company access tandem office to which the MTSO is interconnected.

(F) Feature Groups B and D - Remote Offices

The Local Transport mileage for Feature Groups B and D Switched Access Service provided to a Remote Office will be measured in multiple segments. When the facility is directly trunked to the Host Office, Direct Trunked Facility mileage will be measured between the customer's serving wire center and the Host Office, and Tandem Switched Facility mileage will be measured between the Host Office and the Remote Office. The Tandem Switching charge will not apply.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.6 Mileage Measurement (Cont'd)(F) Feature Groups B and D - Remote Offices (Cont'd)

When the facility is directly trunked to a tandem, Direct Trunked Facility will be measured from the Serving Wire Center to the tandem, Tandem Switched Facility will be measured from the tandem to the host, and another segment of Tandem Switched Facility will be measured from the host to the remote. A Tandem Switching charge would be applicable at the tandem.

When service to the remote is ordered as only Tandem Switched Facility, mileage will be measured between the serving wire center and the remote. The Tandem Switching charge will be applicable at the tandem.

(G) Use of Telephone Company Hubs

When multiplexing is performed at Telephone Company Hubs, mileage is computed and rates applied separately for each segment of the Local Transport Direct Trunked Facility (i.e., customer serving wire center to Hub and Hub to end office).

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.7 Mixed Use

Mixed use occurs when Switched Access Service and Special Access Service are provided over the same High Capacity service through a common interface. The regulations governing the provision of Mixed Use Facilities are set forth in 5.2.4 preceding and 7.2.7 following.

6.4.8 Message Unit Credit for Feature Group A

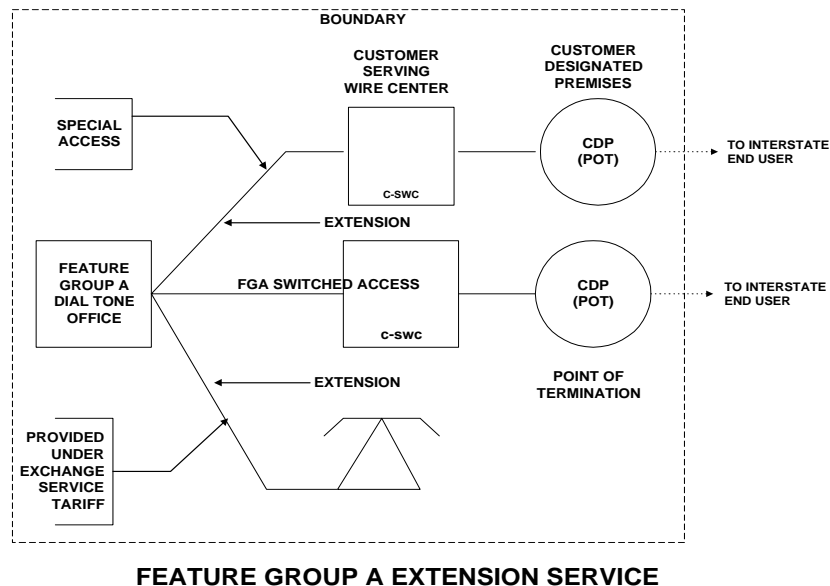
Calls from end users to the seven digit local telephone numbers associated with Feature Group A Switched Access Service are subject to Telephone Company local and/or general exchange service tariff charges (including message unit and toll charges as applicable). The monthly bills rendered to customers for their Feature Group A Switched Access Service will include a credit to reflect any message unit charges collected from their end users under the Telephone Company's local and/or general exchange service tariffs. No credit will apply for any terminating FGA access minutes. The message unit credit for originating access minutes will be based on the generally applicable message unit charges of the Telephone Company.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.4 Rate Regulations (Cont'd)6.4.9 Application of Rates for Feature Group A Extension Service

Feature Group A Switched Access Service is available with extensions, i.e., additional terminations of the service at different customer designated premises. Feature Group A extensions within the same state as the dial tone office are provided and charged under the Alaska Exchange Carrier's Association tariff. Feature Group A extensions located in a different state are provided and charged as Special Access Service. The rate elements which apply are: A Voice Grade Channel Termination, Channel Mileage, if applicable, and Signaling Capability (optional features and functions), if applicable. All appropriate monthly rates and nonrecurring charges set forth in 16.3.2 following will apply.

In the example below, two CDPs are utilized to better illustrate the concept. From a practical standpoint, both the Switched Access and Special Access Services could be routed via the same CDP.



ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Description and Provision of Feature Group A (FGA)6.5.1 Description

- (A) FGA Access, which is available to all customers, provides line side access to Telephone Company end office switches with an associated seven digit local telephone number for the customer's use in originating communications from and terminating communications to an Interexchange Carrier's Interstate Service or a customer - provided interstate communications capability. The customer must specify the Interexchange Carrier to which the FGA service is connected or, in the alternative, specify the means by which the FGA access communications is transported to another state. Special Access Services utilized for connection with FGA at Telephone Company designated WATS Serving Offices as set forth in Section 7 following may be ordered separately by a customer other than the customer which orders the FGA Switched Access Service for the provision of WATS-type services. Special Access Services are ordered as set forth in 5.2 preceding.
- (B) FGA Switching is provided at all end office switches. At the option of the customer, FGA is provided on a single or multiple line group basis and is arranged for originating calling only, terminating calling only, or two-way calling which are specified by the customer's order for service.
- (C) FGA provides a line side termination at the first point of switching (dial tone office). The line side termination will be provided with either ground start supervisory signaling or loop start supervisory signaling. The type of signaling is at the option of the customer.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Description and Provision of Feature Group A (FGA) (Cont'd)6.5.1 Description (Cont'd)

(D) The Telephone Company shall select the first point of switching, at which the line side termination is to be provided unless the customer requests a different first point of switching and Telephone Company facilities and measurement capabilities, where necessary, are available to accommodate such a request.

(E) A seven digit local telephone number assigned by the Telephone Company is provided for access to FGA switching in the originating direction. The seven digit local telephone number will be associated with the selected end office switch and is of the form NXX-XXXX.

If the customer requests a specific seven digit telephone number that is not currently assigned, and the Telephone Company can, with reasonable effort, comply with that request, the requested number will be assigned to the customer.

(F) FGA switching, when used in the terminating direction, is arranged with dial tone start-dial signaling. When used in the terminating direction FGA switching may, at the option of the customer, be arranged for dial pulse or dual tone multifrequency address signaling, subject to availability of equipment at the first point of switching. When FGA switching is provided in a hunt group or uniform call distribution arrangement, all FGA switching will be arranged for the same type of address signaling.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Description and Provision of Feature Group A (FGA) (Cont'd)6.5.1 Description (Cont'd)

- (G) No address signaling is provided by the Telephone Company when FGA switching is used in the originating direction. Address signaling in such cases, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.
- (H) FGA switching, when used in the terminating direction, may be used to access valid NXXs in the Telephone Company's serving area, local operator service (0- and 0+), Directory Assistance (411 where available and 555-1212), emergency reporting service (911 where available), exchange telephone repair (611 where available), time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate digits).

Charges for FGA terminating calls requiring operator assistance or calls to 611 or 911 will only apply where sufficient call details are available. Additional non-access charges will also be billed on

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Description and Provision of Feature Group A (FGA) (Cont'd)6.5.1 Description (Cont'd)

(H) (Cont'd)

a separate account for (1) an operator surcharge, as set forth in the local exchange tariffs, for local operator assistance (0- and 0+) calls, (2) calls to certain community information services, for which rates are applicable under Telephone Company exchange service tariffs, and, (3) calls from a FGA line to another customer's service in accordance with that customer's applicable service rates when the Telephone Company performs the billing function for that customer.

For calls to Directory Assistance (411 and 555-1212, whichever is available), Local Transport rates for FGA Switched Access Service will apply. Additionally, calls to Directory Assistance are subject to the Directory Assistance Service Call rate set forth in 16.2.4(A) following.

(I) When a FGA switching arrangement for an individual customer (a single line or entire hunt group) is discontinued at an end office, an intercept announcement is provided. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.5 Description and Provision of Feature Group A (FGA) (Cont'd)

6.5.1 Description (Cont'd)

- (J) FGA will be provisioned over an Entrance Facility from the customer's premises to the customer's serving wire center.

FGA service, when used in the originating direction, will be provisioned as Direct Trunked Transport from the first point of switching (i.e., the end office switch where FGA switching dial tone is provided) to the customer's serving wire center.

FGA service, when used in the terminating direction, will be provisioned as Direct Trunked Transport from the customer's serving wire center to the first point of switching and provisioned as Tandem Switched Transport from the first point of switching to the terminating end office.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Description and Provision of Feature Group A (FGA) (Cont'd)6.5.2 Optional Features

Following are the various nonchargeable optional features that are available in lieu of, or in addition to, the standard features provided with Feature Group A. They are provided as Common Switching, Transport Termination or Local Transport options.

(A) Common Switching Options

Descriptions of the common switching optional features are set forth in 6.8.1 following.

- (1) Call Denial on Line or Hunt Group
- (2) Service Code Denial on Line or Hunt Group
- (3) Hunt Group Arrangement
- (4) Uniform Call Distribution Arrangement
- (5) Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement
- (6) Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS-Type Services
- (7) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS-Type Services

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Description and Provision of Feature Group A (FGA) (Cont'd)6.5.2 Optional Features (Cont'd)(A) Common Switching Options (Cont'd)

- (8) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS-Type Services
- (9) Nonhunting Number Associated with a Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS-Type Services

(B) Transport Termination

- (1) Two-way operation with dial pulse address signaling and loop start supervisory signaling
- (2) Two-way operation with dial pulse address signaling and ground start supervisory signaling
- (3) Two-way operation with dial tone multifrequency address signaling and loop start supervisory signaling
- (4) Two-way operation with dial tone multifrequency address signaling and ground start supervisory signaling
- (5) Terminating operation with dial pulse address signaling and loop start supervisory signaling
- (6) Terminating operation with dial pulse address signaling and ground start supervisory signaling

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Description and Provision of Feature Group A (FGA) (Cont'd)6.5.2 Optional Features (Cont'd)(B) Transport Termination (Cont'd)

- (7) Terminating operation with dual tone multifrequency address signaling and loop start supervisory signaling
- (8) Terminating operation with dual tone multifrequency address signaling and ground start supervisory signaling
- (9) Originating operation with loop start supervisory signaling
- (10) Originating operation with ground start supervisory signaling

(C) Local Transport Options

- (1) Supervisory Signaling (as set forth in 14.1.1(E) following)
- (2) Customer Specified Entry Switch Receive Level (as set forth in 14.1.1(E) following)

6.5.3 Optional Features Provided In ACS of Anchorage Local Tariff

Certain other features which may be available in connection with Feature Group A (e.g., Speed Calling, Remote Call Forwarding, Bill Number Screening) are provided under the Telephone Company's local and/or general exchange service tariffs.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Description and Provision of Feature Group A (FGA) (Cont'd)6.5.4 Measuring Access Minutes

Customer Feature Group A traffic to end offices will be measured (i.e., recorded) by the Telephone Company at end office switches. Originating and terminating calls will be measured (i.e., recorded) by the Telephone Company to determine the basis for computing chargeable access minutes. In the event the customer message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost customer access minutes of use based on previously known values.

For terminating calls over FGA and for originating calls over FGA (when the off-hook supervisory signal is provided by the customer's equipment before the called party answers), the measured minutes are the chargeable access minutes. For originating calls over FGA (when the off-hook supervisory signal is forwarded by the customer's equipment when the called party answers), chargeable originating access minutes are derived from recorded minutes.

For originating calls over FGA, usage measurement begins when the originating FGA first point of switching receives an off-hook supervisory signal forwarded from the customer's point of termination. This off-hook signal may be provided by the customer's equipment before the called party answers, or forwarded by the customer's equipment when the called party answers.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.5 Description and Provision of Feature Group A (FGA) (Cont'd)6.5.4 Measuring Access Minutes (Cont'd)

The measurement of originating call usage over FGA ends when the originating FGA first point of switching receives an on-hook supervisory signal from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

For terminating calls over FGA, usage measurement begins when the terminating FGA first point of switching receives an off-hook supervisory signal from the terminating end user's end office, indicating the terminating end user has answered. The measurement of terminating call usage over FGA ends when the terminating FGA first point of switching receives an on-hook supervisory signal from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

FGA access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each line or hunt group, and are then rounded up to the nearest access minute for each line or hunt group.

6.5.5 Testing Capabilities

FGA is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line and milliwatt (102 type) test line. In addition to the tests described in 6.2.4 preceding which are included with the installation of service (Acceptance Testing) and as ongoing routine testing, Additional Cooperative Acceptance Testing and Additional Manual Testing are available as set forth in 13.3.1 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.6 Description and Provision of Feature Group B (FGB)6.6.1 Description

- (A) FGB Access, which is available to all customers, provides trunk side access to Telephone Company end office switches with an associated uniform 950-1XXX or 950-0XXX access code. FGB trunk side access is provided for the customer's use in originating communications from and terminating communications to an Interexchange Carrier's Interstate Service or a customer provided interstate communications capability. The customer must specify the Interexchange Carrier to which the FGB service is connected or, in the alternative, specify the means by which the FGB access communications is transported to another state. Special Access Services utilized for connection with FGB at Telephone Company designated WATS Serving Offices as set forth in Section 7 following may be ordered separately by a customer other than the customer which orders the FGB Switched Access Service for the provision of WATS or WATS-type services. Special Access Services are ordered as set forth in 5.2 preceding.
- (B) FGB, when directly routed to an end office (i.e., provided without the use of an access tandem switch), is provided at appropriately equipped Telephone Company electronic end office switches. When provided via Telephone Company designated electronic access tandem switches, FGB switching is provided at Telephone Company electronic end office switches.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.6 Description and Provision of Feature Group B (FGB) (Cont'd)6.6.1 Description (Cont'd)

- (C) FGB is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start-pulsing signals and answer and disconnect supervisory signaling.
- (D) FGB switching is provided with multifrequency address signaling in both the originating and terminating directions. Except for FGB switching provided with the automatic number identification (ANI) or rotary dial station signaling arrangements as set forth respectively in 6.8.1(F) and 6.8.2 following, any other address signaling in the originating direction, if required by the customer, must be provided by the customer's end user using inband tone signaling techniques. Such inband tone address signals will not be regenerated by the Telephone Company and will be subject to the ordinary transmission capabilities of the Local Transport provided.
- (E) The access code for FGB switching is a uniform access code. The form of the uniform access code is 950-1XXX or 950-0XXX. A uniform access code(s) will be assigned to the customer for the customer's domestic communications and another will be assigned to the customer for its international communications, if required. These access codes will be the assigned access numbers of all FGB switched access service provided to the customer by the Telephone Company.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.6 Description and Provision of Feature Group B (FGB) (Cont'd)6.6.1 Description (Cont'd)

- (F) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGB switching is ordered. When required by technical limitations, a separate trunk group will be established for each type of FGB switching arrangement provided. Different types of FGB or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.
- (G) FGB switching, when used in the terminating direction, may be used to access valid NXXs in the ACS of Anchorage, Inc. Serving Area, time or weather announcement services of the Telephone Company, community information services of an information service provider and other customers' services (by dialing the appropriate digits). When directly routed to an end office, only those valid NXX codes served by that end office may be accessed. When routed through an access tandem, only those valid NXX codes served by end offices subtending the access tandem will be accessed.

Calls in the terminating direction will not be completed to 950-1XXX or 950-0XXX access codes, local operator assistance (0 - and 0+), Directory Assistance (411 and 555-1212), service codes 611 and 911 or 10XXX access codes. Calls will be completed to Directory Assistance (NPA-555-1212 or 555-1212)

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.6 Description and Provision of Feature Group B (FGB) (Cont'd)6.6.1 Description (Cont'd)

- (G) (Cont'd)
when FGB switching is combined with Directory Assistance (DA) switching. The combination of FGB Switched Access Service with DA service is provided as set forth in Section 9. following. FGB may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, and D.
- (H) When all FGB switching arrangements are discontinued at an end office. This arrangement provides, for a limited period of time, an announcement that the service associated with the number dialed has been disconnected.
- (I) For FGB switched access service to a Mobile Telephone Switching Office (MTSO) directly interconnected to a Telephone Company access tandem office, the customer will be billed only the Local Transport premium rate element for the FGB usage. The mileage used to determine the monthly rate for the local transport rate element is as set forth in 6.4.6(E) preceding.

6.6.2 Optional Features

Following are descriptions of the various nonchargeable optional features that are available in lieu of, or in addition to, the standard features provided with Feature Group B. They are set forth in (A), (B) and (C) following and are provided as Common Switching, Transport Termination and Local Transport options. Additionally, other optional features provided in local tariffs are set forth in (D) following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.6 Description and Provision of Feature Group B (FGB) (Cont'd)6.6.2 Optional Features (Cont'd)(A) Common Switching Options

Descriptions of the common switching optional features are set forth in 6.8 following.

- (1) Automatic Number Identification (ANI)
- (2) Up to 7 Digit Outpulsing of Access Digits to Customer
- (3) Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services
- (4) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services
- (5) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services
- (6) Nonhunting Number Associated with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.6 Description and Provision of Feature Group B (FGB) (Cont'd)6.6.2 Optional Features (Cont'd)(B) Transport Terminations Options(1) Rotary Dial Station Signaling(C) Local Transport Options

(1) Customer Specification of Local Transport Termination

(2) Optional Supervisory Signaling

(3) Customer Specified Entry Switch Receive Level

Inasmuch as these options concern transmission levels and signaling they are set forth in 14.1.1 following.

(D) Optional Features Provided In Local Tariffs

Another feature, Bill Number Screening, which may be available in connection with FGB, is provided under the Telephone Company's local and/or general exchange service tariffs.

6.6.3 Design and Traffic Routing

For Feature Group B, the trunk directionality and traffic routing of the Switched Access Service between the customer designated premises and the entry switch are determined by the customer's order for service. Additionally, the customer may order the optional feature Customer Specification of Local Transport Termination as set forth in 14.1.1 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.6 Description and Provision of Feature Group B (FGB) (Cont'd)6.6.4 Measuring Access Minutes

Customer traffic to end offices will be measured (i.e., recorded) by the Telephone Company at end office switches or access tandem switches. Originating and terminating calls will be measured (i.e., recorded) by the Telephone Company to determine the basis for computing chargeable access minutes. In the event the customer message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost customer access minutes of use based on previously known values.

For both originating and terminating calls over FGB the measured minutes are the chargeable access minutes.

For originating calls over FGB, usage measurement begins when the originating FGB first point of switching receives answer supervision forwarded from the customer's point of termination, indicating the customer's equipment has answered.

The measurement of originating call usage over FGB ends when the originating FGB first point of switching receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.6 Description and Provision of Feature Group B (FGB) (Cont'd)6.6.4 Measuring Access Minutes (Cont'd)

For terminating calls over FGB, usage measurement begins when the terminating FGB first point of switching receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered.

The measurement of terminating call usage over FGB ends when the terminating FGB first point of switching receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

FGB access minutes or fractions thereof, the exact value of the fraction being a function of the switch technology where the measurement is made, are accumulated over the billing period for each end office, and are then rounded up to the nearest access minute for each end office.

6.6.5 Testing Capabilities

FGB is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.2.4 preceding which are included with the installation of service (Acceptance Testing) and as ongoing routine testing, Additional Cooperative Acceptance Testing, Additional Automatic Testing, and Additional Manual Testing are available as set forth in 13.3.1 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD)6.7.1 Description

- (A) FGD Access, which is available to all customers, provides trunk side access to Telephone Company end office switches. Special Access Services utilized for connection with FGD at Telephone Company designated WATS Serving offices as set forth in Section 7 following may be ordered separately by a customer other than the customer which orders the FGD Switched Access Service for the provision of WATS or WATS-type services. Special Access Services are ordered as set forth in 5.2 preceding.
- (B) FGD is provided at Telephone Company designated end office switches, whether routed directly or via Telephone Company electronic access tandem switches.
- (C) FGD is provided as trunk side switching through the use of end office or access tandem switch trunk equipment. The switch trunk equipment is provided with wink start-pulsing signals and answer and disconnect supervisory signaling.
- (D) FGD switching is provided with multifrequency address signaling or out of band SS7 signaling. With multifrequency address signaling and SS7 signaling, up to 12 digits of the called party number dialed by the customer's end user using dual tone multifrequency or dial pulse address signals will be provided by Telephone Company equipment to the customer's premises where the Switched Access Service terminates. Such address signals will be subject to the ordinary transmission capabilities of the Local Transport provided.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.1 Description (Cont'd)

- (E) FGD switching, when used in the terminating direction, may be used to access valid NXXs in the ACS of Anchorage, Inc. Serving Area, time or weather announcement services of the Telephone Company, community information services of an information service provider, and other customers' services (by dialing the appropriate codes) when such services can be reached using valid NXX codes. When directly routed to an end office, only those valid NXX codes served by that office may be accessed. When routed through an access tandem, only those valid NXX code served by end offices subtending the access tandem may be accessed.

Calls in the terminating direction will not be completed to 950-1XXX or 950-0XXX access codes, local operator assistance (0 - and 0+), Directory Assistance (411 and 555-1212), service codes 611 and 911 and 10XXX access codes. Calls will be completed to Directory Assistance (NPA-555-1212 or 555-1212) when FGD switching is combined with Directory Assistance switching. The combination of FGD Switched Access Service with DA Service is provided as set forth in Section 9 following. FGD may not be switched, in the terminating direction, to Switched Access Service Feature Groups B, or D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.1 Description (Cont'd)

- (F) The Telephone Company will establish a trunk group or groups for the customer at end office switches or access tandem switches where FGD switching is provided. When required by technical limitations, a separate trunk group will be established for each type of FGD switching arrangement provided. Different types of FGD or other switching arrangements may be combined in a single trunk group at the option of the Telephone Company.
- (G) The access code for FGD switching is a uniform access code of the form 10XXX. A uniform access code(s) will be the assigned number of all FGD access provided to the customer by the Telephone Company. No access code is required for calls to a customer over FGD Switched Access Service if the end user's telephone exchange service is arranged for presubscription to that customer, as set forth in 13.4 following.

Where no access code is required, the number dialed by the customer's end user shall be a seven or ten digit number for calls in the North American Numbering Plan (NANP). For international calls outside the NANP, a seven to twelve digit number may be dialed. The form of the numbers dialed by the customer's end user is NXX-XXXX, 0 or 1 + NXX-XXXX, NPA + NXX-XXXX, 0 or 1 + NPA + NXX-XXXX, and, when the end office is equipped for International Direct Distance Dialing (IDDD), 01 + CC + NN or 011 + CC + NN.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.1 Description (Cont'd)

(G) (Cont'd)

When the 10XXX access code is used, FGD switching also provides for dialing the digit 0 for access to the customer's operator, 911 for access to the Telephone Company's emergency reporting service, or the end-of-dialing digit (#) for cut-through access to the customer designated premises.

(H) For FGD switched access service to a Mobile Telephone Switching Office (MTSO) directly interconnected to a Telephone Company access tandem office, the customer will be billed only the Local Transport premium rate element for the FGD usage. The mileage used to determine the monthly rate for the local transport rate element is as set forth in 6.4.6(E) preceding.

(I) FGD switching will be arranged to accept calls from telephone exchange service locations without the need for dialing the 10XXX uniform access code. Each telephone exchange service line may be marked with a code to identify which 10XXX code its calls will be directed to for service.

(J) Unless prohibited by technical limitations, the customer's Interim NXX Translation and/or 800 Data Base traffic may, at the option of the customer, be combined in the same trunk group arrangement with the customer's non-Interim NXX Translation traffic and/or 800 Data Base Traffic. When required by technical limitations, or at the request of the customer, a separate trunk group will be established for Interim NXX Translation traffic and/or 800 Data Base Traffic.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.1 Description (Cont'd)

- (K) When a customer has had FGB access in an end office and subsequently replaces the FGB access with FGD access, at the mutual agreement of the customer and the Telephone Company, the Telephone Company will direct calls dialed by the customer's end users using the customer's previous FGB access code to the customer's FGD access service. The customer must be prepared to handle normally dialed FGD calls, as well as calls dialed with the FGB access code which requires the customer to receive additional address signaling from the end user. Such calls will be rated as FGD. The Telephone Company may, with 90 days' written notice to the customer, discontinue this arrangement.
- (L) For FGD switched access service to a Mobile Telephone Switching Office (MTSO) directly interconnected to a Telephone Company access tandem office, the customer will be billed only the Local Transport premium rate element for the FGD usage. The mileage used to determine the monthly rate for the local transport rate element is as set forth in 6.4.6(E) preceding.

6.7.2 Optional Features

Following are the various nonchargeable and chargeable optional features that are available in lieu of, or in addition to, the standard features provided with Feature Group D. Nonchargeable Optional Features are provided as Common Switching, Transport Termination and Local Transport options as set forth in (A) through (B) following. Chargeable optional features are set forth in (C) following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.2 Optional Features (Cont'd)(A) Common Switching Options

Descriptions of the common switching optional features are set forth in 6.8 following.

- (1) Automatic Number Identification (ANI)
- (2) Service Class Routing
- (3) Alternate Traffic Routing
- (4) Trunk Access Limitation
- (5) Call Gapping Arrangement
- (6) International Carrier Option
- (7) Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services
- (8) End Office End User Line Service Screening for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services
- (9) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services
- (10) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group D (FGD) (Cont'd)

6.7.2 Optional Features (Cont'd)

(A) Common Switching Options (Cont'd)

(11) Nonhunting Number Associated with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

(12) Digital Switched 56 Service

(13) Flexible Automatic Number Identification (Flex ANI)

(B) Local Transport Options

(1) Supervisory Signaling

The Supervisory Signaling optional feature due to its technical nature, is set forth in 14.1.1 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.2 Optional Features (Cont'd)(B) Local Transport Options (Cont'd)(2) Signaling System 7 (SS7)

The SS7 optional feature allows the customer to send and receive signals for out of band call set up and is available with Feature Group D. This option requires the establishment of a signaling connection between the customer's designated premises/ Signaling Point Interface and a Telephone Company's Signaling Transfer Point (STP).

SS7 is provided in both the originating and terminating direction on FGD and each signaling connection is provisioned for two way SS7 signaling information.

(3) Multifrequency Address Signaling(4) Calling Party Number (CPN) Parameter(5) Charge Number Parameter (CNP)(6) Carrier Selection Parameter (CSP)(C) Chargeable Optional Features(1) Interim 900 NXX Translation

The Interim 900 NXX Translation Optional Feature is set forth in 6.8.2 following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.2 Optional Features (Cont'd)(C) Chargeable Optional Features (Cont'd)(2) Common Channel Signaling/Signaling System 7 (CBS/SS7) Network Connection Service (CCSNC)

The CCSNC Optional Feature is provided as set forth in 6.8.3 following.

6.7.3 Design and Traffic Routing

For Feature Group D, the Telephone Company shall design and determine the routing of Tandem Switched Access Transport Service, including the selection of the first point of switching and the selection of facilities from the interface to any switching point and to the end offices. The Telephone Company shall also decide if capacity is to be provided by originating only, terminating only, or two-way trunk groups. Finally, the Telephone Company will decide whether trunk side access will be provided through the use of two-wire or four-wire trunk terminating equipment.

For Feature Group D Direct Trunked Transport service, the Telephone Company will determine the routing of switched access service from the point of interface to the first point of switching or, if the customer specifies one or more hub locations for multiplexing, from the point of interface to the hub location, from one hub location to another hub location, and/or from a hub location to the first point of switching.

ACCESS SERVICE

6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group D (FGD) (Cont'd)

6.7.3 Design and Traffic Routing (Cont'd)

Selection of facilities and equipment and traffic routing of the service are based on standard engineering methods, available facilities and equipment, and actual traffic patterns.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.4 Measuring Access Minutes

Customer traffic to end offices will be recorded at end office switches or access tandem switches. Originating and terminating calls will be measured or derived to determine the basis for computing chargeable access minutes. In the event the customer message detail is not available because the Telephone Company lost or damaged tapes or incurred recording system outages, the Telephone Company will estimate the volume of lost customer access minutes of use based on previously known values.

Originating Usage

For originating calls over FGD the measured minutes are the chargeable access minutes.

For originating calls over FGD, provided with Multi-Frequency Signaling, usage measurement begins when the originating FGD first point of switching receives the first wink supervisory signal forwarded from the customer's point of termination.

For originating calls over FGD provided with Signaling System 7 (SS7) Signaling when the FGD end office is not routed through an access tandem for connection to the customer, usage measurement begins when the SS7 Initial Address Message is sent from the Service Switching Point (SSP) to the Signal Transfer Point (STP).

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.4 Measuring Access Minutes (Cont'd)Originating Usage (Cont'd)

For originating calls over FGD provided with Signaling System 7 (SS7) signaling when the FGD end office is routed through a tandem for connection to the customer, usage measurement begins when the FGD end office receives the SS7 Exit Message from the tandem.

The measurement of originating call usage over FGD provided with Multi-Frequency Signaling ends when the originating FGD first point of switching receives disconnect supervision from either the originating end user's end office, indicating the originating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

The measurement of originating call usage over FGD provided with SS7 Signaling ends when the originating FGD end office receives an SS7 Release Message indicating either the originating or terminating end user has disconnected.

Terminating Usage

For terminating calls over FGD the chargeable access minutes are either measured or derived.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.4 Measuring Access Minutes (Cont'd)Terminating Usage (Cont'd)

For terminating calls over FGD provided with Mutli-Frequency Signaling, where measurement capability exists, the measurement of chargeable access minutes begins when the terminating FGD first point of switching receives answer supervision from the terminating end user's end office, indicating the terminating end user has answered. This measurement ends when the terminating FGD first point of switching receives disconnect supervision from either the terminating end user's end office, indicating the terminating end user has disconnected, or the customer's point of termination, whichever is recognized first by the first point of switching.

For terminating calls over FGD with SS7 signaling, usage measurement begins when the terminating recording switch receives answer supervision from the terminating user. The Telephone Company switch receives answer supervision and sends the indication to the customer in the form of an answer message. The measurement of terminating FGD call usage ends when the entry switch receives or sends a release message, whichever occurs first.

6.7.5 Design Blocking Probability

The Telephone Company will design the facilities used in the provision of Switched Access Service FGD to meet the blocking probability criteria as set forth in (A) and (B) following.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.5 Design Blocking Probability (Cont'd)

- (A) For Feature Group D, the design blocking objective will be no greater than one percent (.01) between the point of termination at the customer's designated premises and the end office switch, whether the traffic is directly routed without an alternate route or routed via an access tandem. Standard traffic engineering methods as set forth in reference document Telecommunications Transmission Engineering - Volume 3 - Networks and Services (Chapters 6-7) will be used by the Telephone Company to determine the number of transmission paths required to achieve this level of blocking.
- (B) The Telephone Company will perform routine measurement functions to assure that an adequate number of transmission paths are in service. The Telephone Company will recommend that additional capacity (i.e., busy hour minutes of capacity or trunks) be ordered by the customer when additional paths are required to reduce the measured blocking to the designed blocking level. For the capacity ordered, the design blocking objective is assumed to have been met if the routine measurements show that the measured blocking does not exceed the threshold listed in the following tables.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.5 Design Blocking Probability (Cont'd)

- (1) For transmission paths carrying only first routed traffic direct between an end office and customer's designated premises without an alternate route, and for paths carrying only overflow traffic, the measured blocking thresholds are as follows:

<u>Number of Transmission Paths Per Trunk Group</u>	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m. <u>Per Trunk Group</u>			
	15-20	11-14	7-10	3-6
	Measurements	Measurements	Measurements	Measurements
2	7%	8.0%	9%	14.0%
3	5%	6.0%	7%	9.0%
4	5%	6.0%	7%	8.0%
5-6	4%	5.0%	6%	7.0%
7 or more	3%	3.5%	4%	6.0%

- (2) For transmission paths carrying first routed traffic between an end office and customer's premises via an access tandem, the measured blocking thresholds are as follows:

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.5 Design Blocking Probability (Cont'd)

<u>Number of Transmission Paths Per Trunk Group</u>	Measured Blocking Thresholds in the Time Consistent Busy Hour for the Number of Measurements Taken Between 8:00 a.m. and 11:00 p.m. <u>Per Trunk Group</u>			
	15-20	11-14	7-10	3-6
	Measurements	Measurements	Measurements	Measurements
2	4.5%	5.5%	6.0%	9.5%
3	3.5%	4.0%	4.5%	6.0%
4	3.5%	4.0%	4.5%	5.5%
5-6	2.5%	3.5%	4.0%	4.5%
7 or more	2.0%	2.5%	3.0%	4.0%

6.7.6 Network Blocking Charge

The customer will be notified by the Telephone Company to increase its capacity quantities of trunks when excessive trunk group blocking occurs on groups carrying Feature Group D traffic and the measured access minutes for that hour exceed the capacity purchased. Excessive trunk group blocking occurs when the blocking thresholds stated below are exceeded. They are predicated on time consistent, hourly measurements over a 30-day period excluding Saturdays,

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.6 Network Blocking Charge (Cont'd)

Sundays and national holidays. If the order for additional capacity has not been received by the Telephone Company within 15 days of the notification, the Telephone Company will bill the customer, at the rate set forth in 16.2.2 following, for each overflow in excess of the blocking threshold when (1) the average "30 day period" overflow exceeds the threshold level for any particular hour and (2) the "30 day period" measured average originating or two-way usage for the same clock hour exceeds the capacity purchased.

Blocking Thresholds

<u>Trunks in Service</u>	<u>1%</u>	<u>1.2%</u>
1-2	7.0%	4.5%
3-4	5.0%	3.5%
5-6	4.0%	2.5%
7 or greater	3.0%	2.0%

The 1% blocking threshold is for transmission paths carrying traffic direct (without an alternate route) between an end office and a customer's premises. The 1/2% blocking threshold is for transmission paths carrying first routed traffic between an end office and a customer's premises via an access tandem.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.7 Description and Provision of Feature Group D (FGD) (Cont'd)6.7.7 Testing Capabilities

FGD is provided, in the terminating direction where equipment is available, with seven digit access to balance (100 type) test line, milliwatt (102 type) test line, nonsynchronous or synchronous test line, automatic transmission measuring (105 type) test line, data transmission (107 type) test line, loop around test line, short circuit test line and open circuit test line. In addition to the tests described in 6.2.4 preceding, which are included with the installation of service (Acceptance Testing) and as ongoing routine testing, Additional Cooperative Acceptance Testing, Additional Automatic Testing and Additional Manual Testing, are available as set forth in 13.3.1 following.

When SS7 Signaling is ordered, network compatibility and other testing will be performed cooperatively by the Telephone Company and the customer as specified in Technical Reference TR-TSV 000905.

6.8 Chargeable and Nonchargeable Optional Features

Following are descriptions of the various optional features that are available in lieu of, or in the addition to, the standard features provided with the Feature Groups. They are provided as Common Switching, Transport Termination, or Interim 900 NXX Translation options.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features

The following table shows the Feature Groups with which the optional features are available.

<u>Option</u>	<u>Available Feature Groups</u>		
	<u>A</u>	<u>B</u>	<u>D</u>
A) Call Denial on Line or Hunt Group	X		
B) Service Code Denial on Line or Hunt Group	X		
C) Hunt Group Arrangement	X		
D) Uniform Call Distribution Arrangement	X		
E) Nonhunting Number for Use with Hunt Group or Uniform Call Distribution Arrangement	X		
F) Automatic Number Identification (ANI)		X	X
G) Up to 7 Digit Outpulsing of Access Digits to Customer		X	
H) Service Class Routing			X
I) Alternate Traffic Routing			X
J) Trunk Access Limitation			X
K) Call Gapping Arrangement			X
L) International Carrier Option			X
M) Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services	X	X	X
N) End Office End User Line Service Screening for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services			X
O) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services	X	X	X

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)

<u>Option</u>	<u>Available Feature Groups</u>		
	<u>A</u>	<u>B</u>	<u>D</u>
P) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services	X	X	X
Q) Nonhunting Number Associated with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services	X	X	X
R) Digital Switched 56 Service			X
S) Multifrequency Address Signaling			X
T) Signaling System 7 (SS7) Signaling			X
U) Calling Party Number (CPN)			
V) Carrier Selection Parameter (CSP)			X
W) Charge Number Parameter (CNP)			X
X) Flexible Automatic Number Identification (Flex ANI)			X

(A) Call Denial on Line or Hunt Group

This option allows for the screening of terminating Feature Group A calls. There are two screening arrangements available with this option as follows: 1) limiting terminating calls for completion to only 411 or 555-1212 whichever is available, 611, 911, 800 series and a Telephone Company specified set of NXXs within the Telephone Company local exchange calling area of the dial tone office in which the arrangement is provided or, 2) limiting terminating calls to completion to only the NXXs associated with all end offices in the

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(A) Call Denial on Line or Hunt Group (Cont'd)

ACS of Anchorage, Inc.'s Serving Area i.e., the call cannot be further switched or routed out of ACS of Anchorage, Inc.'s Serving Area nor will calls be completed to 411 or 555-1212 whichever is available, 611, 911 or 800 series. All other calls are routed to a reorder tone or recorded announcement. Arrangement 1 is provided in all Telephone Company electronic end offices. Arrangement 2 is provided where available. This feature is available with Feature Group A.

(B) Service Code Denial on Line or Hunt Group

This option allows for the screening of terminating calls, and for disallowing completion of calls to 0-, 555 and N11 (e.g., 411, 611, and 911). This feature is provided where available in all Telephone Company end offices. It is available with Feature Group A.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(C) Hunt Group Arrangement

This option provides the ability to sequentially access one of two or more line side connections in the originating direction, when the access code of the line group is dialed. This feature is provided in all Telephone Company end offices. It is available with Feature Group A. All Feature Group A access services in the same hunt group must provide off-hook supervisory signaling from the same point in time in the call sequence i.e., all off-hook supervisory signals must either be provided by the customer's equipment before the called party answers or all must be forwarded by the customer's equipment when the called party answers.

(D) Uniform Call Distribution Arrangement

This option provides a type of multiline hunting arrangement which provides for an even distribution of calls among the available lines in a hunt group. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(E) Nonhunting Number for Use with Hunt Group or Uniform
Call Distribution Arrangement

This option provides access to an individual line within a multiline hunt or uniform call distribution group. When the nonhunting number is dialed, access is provided when it is idle, or busy tone is provided when it is busy. Where available, this feature is provided in Telephone Company electronic end offices only. It is available with Feature Group A.

(F) Automatic Number Identification (ANI)

(1) This option provides the automatic transmission of a seven digit or ten digit number and information digits to the customer designated premises for originating calls to identify the calling station. The ANI feature is an end office software function which is associated on a call-by-call basis with:

- (a) all individual transmission paths in a trunk group routed directly between an end office and a customer designated premises
- (b) all individual transmission paths in a trunk group between an end office and an access tandem, and a trunk group between an access tandem and a customer designated premises.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(F) Automatic Number Identification (ANI) (Cont'd)

- (2) The seven-digit ANI telephone number is available with Feature Group B. ANI will be transmitted on all calls except those originating from multiparty lines, pay telephones using Feature Group B, or when an ANI failure has occurred. Seven-digit ANI is not available with SS7 Signaling.
- (3) The ten-digit ANI telephone number is only available with Feature Group D. The ten-digit ANI telephone number consists of the Number Plan Area (NPA) plus the seven digit ANI telephone number. The ten-digit ANI telephone number will be transmitted on all calls except in case of ANI failure, in which case only the NPA will be transmitted (in addition to the information digit described following. Ten-digit ANI is provided with multifrequency address signaling or SS7 signaling.
- (4) Additional ANI information digits are available with Feature Group D also. They include:
 - (a) ACS of Anchorage, Inc. serving area restricted - telephone number is identified line

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(F) Automatic Number Identification (ANI) (Cont'd)

(b) ACS of Anchorage, Inc. serving area
restricted - hotel/motel line

(c) ACS of Anchorage, Inc. serving area
restricted - coinless, hospital, inmate, etc.,
line

These information digits will be transmitted as
agreed to by the customer and the Telephone
Company.

Flexible Automatic Number Identification (Flex
ANI) is an enhancement to ANI and is offered as a
Common Switching Nonchargeable Optional
Feature of Feature Group D as described in
Section 6.8.1.X following.

(G) Up to 7 Digit Outpulsing of Access Digits to Customer

This option provides for the end office capability of
providing up to 7 digits of the uniform access code (950-
1/0XXX) to the customer designated premises.

The customer can request that only some of the digits in
the access code be forwarded. The access code digits
would be provided to the customer designated premises
using multifrequency signaling, and transmission of the
digits would precede the forwarding of ANI if that feature
were provided. This feature is available with Feature
Group B.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(H) Service Class Routing

This option provides the capability of directing originating traffic from an end office to a trunk group to a customer designated premises, based on the line class of service (e.g., coin, multiparty or hotel/motel), service prefix indicator (e.g., 0-, 0+, 01+ or 011+) or Service Access Code (e.g., 900). It is provided in suitably equipped end office or access tandem switches. It is available with Feature Group D.

(I) Alternate Traffic Routing

When the customer orders both Direct Trunked Transport and Tandem Switched Transport at the same end office, this option provides the capability of directing originating traffic from an end office or appropriately equipped access tandem to a trunk group (the "high usage" group) to a customer designated premises until that group is fully loaded, and then delivering additional originating traffic (the "overflowing" traffic) from the same end office or access tandem to a different trunk group (the "final" group) to a second customer designated premises. The customer shall specify the last trunk CBS desired for the high usage group. It is provided in suitably equipped end office or access tandem switch. It is available with Feature Groups B and D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(J) Trunk Access Limitation

This option provides for the routing of originating 900 service calls to a specified number of transmission paths in a trunk group, in order to limit (choke) the completion of such traffic to the customer. Calls to the designated service which could not be completed over the subset of transmission paths in the trunk group, i.e., the choked calls, would be routed to reorder tone. It is provided in all Telephone Company electronic end offices. It is available with Feature Group D.

(K) Call Gapping Arrangement

This option, provided in suitably equipped end office switches, provides for the routing of originating calls to 900 service to be switched in the end office to all transmission paths in a trunk group at a prescribed rate of flow, e.g., one call every five seconds, in order to limit (choke) the completion of such traffic to the customer. Calls to the designated service which are denied access by this feature, i.e., the choked calls, would be routed to a no-circuit announcement. It is provided in selected Feature Group D equipped end offices and is available only with Feature Group D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(L) International Carrier Option

This option allows for Feature Group D end offices or access tandem switches equipped for International Direct Distance Dialing to be arranged to forward the international calls of one or more international carriers to the customer (i.e., the Telephone Company is able to route originating international calls to a customer other than the one designated by the end user either through presubscription or 10XXX dialing). This arrangement requires provision of written verification to the Telephone Company that the customer is authorized to forward such calls. The written verification must be in the form of a letter of agency authorizing the customer to order the option on behalf of the international carrier. This option is only provided at Telephone Company end offices or access tandems equipped for International Direct Distance Dialing and is available only with Feature Group D.

(M) Band Advance Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option, which is provided in association with two or more Special Access Service groups, provides for the automatic overflow of terminating calls to a second Special Access Service group, when the first group has exceeded its call capacity. This option is available with Feature Groups A, B, and D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(N) End Office End User Line Service Screening for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option provides the ability to verify that an end user has dialed a called party address (by screening the called NPA and/or NXX on the basis of geographical bands selected by the Telephone Company) which is in accordance with that end user's service agreement with the customer, e.g., WATS. This option is provided in all Telephone Company electronic end offices which are designated as WATS Serving Offices. It is available with Feature Group D.

(O) Hunt Group Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option provides the ability to sequentially access one of two or more Special Access Services utilized in the provision of WATS services (e.g., 800 Series Service Special Access services) in the terminating direction, when the hunting number of the Special Access Service group is forwarded from the customer to the Telephone Company. This feature is provided in all Telephone Company designated WATS Serving Offices. It is available with Feature Groups A, B, and D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(P) Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option provides a type of multiline hunting arrangement which provides for an even distribution of terminating calls among the available Special Access Services utilized in the provision of WATS or WATS-type Services in the hunt group. Where available, this feature is only provided in Telephone Company designated WATS Serving Offices. It is available with Feature Groups A, B, and D.

(Q) Nonhunting Number Associated with Hunt Group Arrangement or Uniform Call Distribution Arrangement for Use with Special Access Service Utilized in the Provision of WATS or WATS-Type Services

This option provides an arrangement, for an individual Special Access Service utilized in the provision of WATS or WATS-type Services within a multiline hunt or uniform call distribution group, that provides access to that Special Access Service within the hunt or uniform call distribution group when it is idle or provides busy tone when it is busy, when the nonhunting number is dialed, without hunting to the next idle number. Where available, this feature is only provided in Telephone Company designated WATS Serving Offices. It is available with Feature Groups A, B, and D.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(R) Digital Switched 56 Service

This option provides for a connection between a customer's premise and a suitably equipped end user's premise which uses end office switching and facilities capable of transmitting digital data up to 56 Kilobits per second. Digital Switched 56 Service is only available in appropriately provisioned Feature Group D office as set forth in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

(S) Multifrequency Address Signaling

Multifrequency Address Signaling is available as an optional feature with FGD. This feature provides for the transmission of number information and control signals (e.g., number address signals, automatic number identification) between the end office switch and the customer's premises (in either direction). Multifrequency signaling arrangements make use of pairs of frequencies out of a group of six frequencies. Specific information transmitted is dependent upon feature group and call type (i.e., POTS, coin or operator). This feature is not available in combination with SS7 signaling.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(T) Signaling System 7 (SS7) Signaling

This feature provides common channel out of band transmission of address and supervisory SS7 protocol signaling information between the end office switch or the tandem office switching system and the customer's designated premises. The signaling information is transmitted over facilities provided with the Common Channel Signaling/Signaling System 7 Interconnection Service as specified in 6.1.3(A)(3) preceding. This feature is available with FGD and will be provided in accordance with the SS7 Interconnect specifications described in Technical Reference TR-TSV-000905.

(U) Calling Party Number (CPN)

This feature provides for the automatic transmission of the ten digit directly number, associated with a calling station, to the customer's premises for calls originating in the ACS of Anchorage, Inc. Serving Area. The ten digit telephone number will be coded as presented, or restricted via a "privacy indicator" for delivery to the called end user. This feature is provided with originating FGD with SS7 signaling. CPN is available where technically feasible.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(V) Carrier Selection Parameter (CSP)

This feature provides for the automatic transmission of a signaling indicator which signifies to the customer whether or not the call being processed originated from a presubscribed line. If the line was presubscribed, the indicator will signify if the end user did or did not dial 10XXX. This feature is provided with originating FGD with SS7 signaling.

(W) Charge Number Parameter (CN)

The CN Parameter is equivalent to the existing ten digit Automatic Number Identification (ANI) available with FGD with MF signaling. The CN Parameter provides for the automatic transmission of the ten digit billing number of the calling station and the originating line information. This feature is provided with originating FGD with SS7 signaling.

(X) Flexible Automatic Number Identification (Flex ANI)

Flex ANI is a Common Switching Optional Feature that enhances the existing Automatic Number Identification (ANI) optional feature (6.8.1 (F)) by allowing Feature Group D (FGD) customers to receive additional information digits. Flex ANI provides information digits used to identify additional call types, e.g., 27 for pay telephones requiring central office coin supervision capability, 29 for prison/inmate pay telephones, and 70 for pay telephones not requiring central office coin supervision.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(X) Flexible Automatic Number Identification (Flex ANI)
(Cont'd)

Flex ANI can also be used to provide Originating Line Screening (OLS) service (6.8.5).

Flex ANI information digits are two digits in length and are activated through switched software program updates. These codes precede the 10-digit directory number of the calling line and are part of the signaling protocol in equal access end offices. The information digits are outpulsed by the switching system along with the directory number from the originating end office and are sent to the receiving office for billing, routing, or special handling purposes.

Customers who have ANI but do not order Flex ANI will continue to receive the information digits associated with ANI. Flex ANI digits are assigned by the North American Numbering Plan Administrator. The Telephone Company will make available those information digits that are mutually agreed to by the customer and telephone company.

Flex ANI is available to customers with FGD Switched Access Service equipped with ANI. Flex ANI is available in suitable equipped end offices as identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.1 Common Switching Nonchargeable Optional Features
(Cont'd)(X) Flexible Automatic Number Identification (Flex ANI)
(Cont'd)

Payphone Service Providers (PSPs) will be assessed a one-time nonrecurring charge to recover the cost incurred by the Telephone Company to install the Flex ANI feature to transmit payphone specific coding digits. This nonrecurring charge, as set forth in 16.2.3 (C) following, is assessed on a per PSP line basis. The Telephone Company will bill the nonrecurring charge in advance under the provisions set forth in 2.4.1(B)(1) preceding.

6.8.2 Chargeable Optional FeaturesInterim 900 NXX Translation

This service is an originating offering utilizing trunk side Switched Access Service and provides a customer identification function based on the dialed SAC and NXX code.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.2 Chargeable Optional Features (Cont'd)Interim 900 NXX Translation (Cont'd)

For example, when a 1+900+NXX-XXXX call is originated by an end user, the Telephone Company will perform the customer identification function based on the dialed digits to determine the customer location to which the call is to be routed. Once customer identification has been established, the call will be routed to that customer. Calls originating from an end office switch at which the customer identification function is performed, but to which the customer has not ordered Interim 900 NXX Translation, will be blocked. Calls to a 900 number from coin telephones, 0+, 0-, 10XXX, Inmate Service, Hotel/Motel Service and calling card calls will be blocked.

The charge for Interim 900 NXX Translation is as set forth in 16.2.1(C) following.

6.8.3 Common Channel Signaling/Signaling System 7 Network Connection Service (CCSNC)

Common Channel Signaling/Signaling System 7 (CBS/SS7) Network Connection Service (CCSNC), which is available with Feature Group D, where technically feasible as designated in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF FCC NO. 4, WIRE CENTER INFORMATION, provides a signaling path between a customer's designated Signaling Point of Interface (SPOI) and a Signaling Transfer Point (STP). This service provides customers with the use of a two-way signaling path for accessing information necessary for the completion of their end user's calls.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.3 Common Channel Signaling/Signaling System 7 Network Connection Service (CCSNC) (Cont'd)

CBS/SS7 Network Connection Service is comprised of two rate elements; a Signaling Network Access Link (SNAL) and a Signaling Transfer Point (STP) Port. The SNAL is provided as a dedicated 56 Kbps out-of-band signaling connection between the customer's SPOI and the STP port on the STP.

The CBS/SS7 Network Connection Service is provisioned by a mated pair of STPs as described in Technical Reference TR-TSV 000905 in order to ensure network availability and reliability. The Telephone Company shall not be held liable for service outages if the customer employs technology related to the interconnection of signaling networks that does not adhere to generally accepted industry technical standards.

When CBS/SS7 Network Connection service is provisioned for use with SS7 Signaling, interconnection between signaling networks must occur at an STP.

Rates and charges for the CBS/SS7 Network Connection STP Ports and Signaling Network Access Links are contained in 16.2.2 following.

6.8.3.1 CCSNC Service Applications

(A) Local Number Portability Data Base Service

General

The Company's Local Number Portability ("LNP") data base contains Location Routing Number ("LRN") information for a telecommunication service user's choice of Local Service Provider by NXX code. Each LRN is unique to the LSP's serving switch that will complete the call. Customers may access the Local Number Portability data base information as set forth in 13.9.1, following, or by utilizing the Company's CCSNC as set forth in 6.8.3, preceding.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.3 Common Channel Signaling/Signaling System 7 Network Connection Service (CCSNC) (Cont'd)

6.8.3.1 CCSNC Service Applications (Cont'd)

(A) Local Number Portability Data Base Service (Cont'd)

Ordering Requirements

When a customer utilizes CCSNC links to receive LNP data base information, the customer must specify, per access order, the LNP Point Code(s), and Location Identification Codes(s).

Provisioning Requirements

LNP customers using CCSNC as set forth in 6.8.3, preceding, must specify a routing indicator to be set for further Global Title Translations (GTTs). The Company performs the final GTT. The Company will provide to the customer all necessary network accessing information (e.g., territorial STP codes, SCP point codes, sub system number, physical points of interconnection, signal link codes, identity of interconnecting link sets, primary and alternate routes) of the Company's LNP application.

The Company's LNP data base records are available seven (7) days a week, twenty four (24) hours a day. The Company's LNP data base is updated based on the national standard adopted by the North American Numbering Council (NANC) for local number portability data base administrators who are responsible for the Regional Service Management System/Number Portability Administration Center.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.3 Common Channel Signaling/Signaling System 7 Network
Connection Service (CCSNC) (Cont'd)

6.8.3.1 CCSAC Service Applications (Cont'd)

(A) Local Number Portability Data Base Service (Cont'd)

Provisioning Requirements (Cont'd)

LNP data base information is proprietary and protected from unauthorized access. Customers may not store any LNP data base information in their own database or elsewhere for any reason. The LNP data base is accessed on a call by call basis and cannot be used for purposes other than those functions described herein.

Testing Requirements

At no additional charge, the Company will cooperatively test with the customer, at the time of installation, network compatibility and other operational tests for those customers utilizing Company CCSNC Links to reach the Company's LNP data base.

Performance Requirements

The Company will administer its network to ensure the provision of acceptable service levels to all telecommunications users of the Company's network service. The Company maintains the right to invoke manual or automated protective control intervention to its network on a competitively neutral basis. These controls would generally be applied as a result of occurrences such as failure or overload of Company facilities, customer facilities or other networks, natural disasters, mass calling or national security.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.3 Common Channel Signaling/Signaling System 7 Network
Connection Service (CCSNC) (Cont'd)

6.8.3.1 CCSAC Service Applications (Cont'd)

(A) Local Number Portability Data Base Service (Cont'd)

Rate Categories

A LNP Data Base Query Charge as described following is assessed when the customer utilizes CCSNC links to access the Company's LNP data base. Rates and charges for the LNP Data Base Query Charge are set forth in 16.2.2, following.

1. A nonrecurring charge applies for the translation of the signaling point code as applicable to the CCSNC LNP Data Base Query service. This charge is applicable for the installation of the service and for rearrangement of existing CCSNC service to add LNP Data Base Query service. In addition, an Access Order Charge will apply, as shown in Section 5, preceding.

Any change in LNP CCSNC links shall be treated as a discontinuance of the existing service and an installation of a new service.

2. LNP Data Base Query Charge

The LNP Data Base Query Charge represents the transport from the STP to the SCP, the query to the LNP data base and back to the originating STP. The LNP Data Base Query Charge is billed on a per query basis regardless of the outcome of the query.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.4 800 Data Base Access Service

800 Data Base Access Service is provided with FGD switched access service. When a 1+800 Series-NXX-XXXX call is originated by an end user, the Telephone Company will utilize the Signaling System 7 (SS7) network to query an 800 Series data base to perform the identification function. The call will then be routed to the identified customer over FGD switched access. The 800 series includes the following service area codes: 800, 888, 877, 866, 855, 844, 833, and 822.

The manner in which 800 data base access service is provided is dependent on the availability of SS7 service at the end office from which the service is provided as outlined following:

- When 800 data base access service originates at an end office equipped with Service Switching Point (SSP) capability for querying centralized data bases, all such service will be provided from that end office.
- When 800 data base access service originates at an end office not equipped with SSP customer identification capability, the 800 series call will be delivered to the access tandem on which the end office is homed and which is equipped with the SSP feature to query centralized data bases.
- Query charges as set forth in 16.2.2 following are in addition to those charges applicable for the Feature Group D switched access service.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)

- 6.8.5 Originating Line Screening (OLS) is provided with FGD switched access service. When a 1+NPA-NXX-XXXX call is originated by an end user, the Telephone Company will utilize the Signaling System 7 (SS7) network to query an OLS data base to perform the screening function. OLS enables an operator service provider to determine the billing restrictions that apply to the calling party's line.

The manner in which OLS data base access service is provided is dependent on the availability of SS7 service at the end office from which the service is provided as outlined following:

- When OLS data base access service originates at an end office equipped with Service Switching Point (SSP) capability for querying centralized data bases, all such service will be provided from that end office.
- When OLS data base access service originates at an end office not equipped with SSP customer identification capability, the OLS call will be delivered to the access tandem on which the end office is homed and which is equipped with the SSP feature to query centralized data bases.

6.8.6 Automated Message Accounting Records

Automated Message Accounting Records (AMAR) is an electronic media download of Automated Message Accounting (AMA) from the switch for a specific Interexchange Carrier (IXC). The IXC can extract information from this download to rate and bill calls as well as provide additional information for its subscribers.

ACCESS SERVICE

6. Switched Access Service (Cont'd)6.8 Chargeable and Nonchargeable Optional Features (Cont'd)6.8.6 Call Detail Recording

Call Detail Recording (CDR) enables an Interexchange Carrier (IXC) to provide its subscribers with a historical record of toll call transactions sorted by subscriber designated account codes. The historical records are retrieved from the Automated Message Accounting (AMA) information provided to the IXC for rating and billing. When the switch is programmed to provide CDR, a module is appended at the end of the AMA record to provide the subscriber designated code of up to 14 digits.

ACCESS SERVICE

7. Special Access Service7.1 General

Special Access Service provides a transmission path to connect customer designated premises,¹ directly, through a Telephone Company hub or hubs where bridging or multiplexing functions are performed, or to connect a customer designated premises and a WATS Serving Office, or to connect a customer designated premises to a DSL Access Service Connection Point. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

7.1.1 Channel Types

There are six types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

- Transmission specifications,
- Bandwidth,
- Speed (i.e., bit rate),
- Spectrum

Customers can order a basic channel and select from a list of those available transmission parameters and channel interfaces that they desire in order to meet specific communications requirements.

¹ Telephone Company Centrex CO is considered to be a customer designated premises for purposes of this tariff.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Following is a brief description of each type of channel:

Voice Grade - a channel for the transmission of analog signals within an approximate bandwidth of 300 to 3000 Hz.

Program Audio - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 200 to 3500 Hz, from 100 to 5000 Hz, from 50 to 8000 Hz, or from 50 to 15000 Hz.

Video - a channel for the transmission of standard 525 line 60 field monochrome or National Television Systems Committee color video signal and one or two associated 5 or 15 kHz audio signals. The bandwidth is either 30 Hz to 4.5 MHz or 30 Hz to 6.6 MHz.

Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4, 4.8, 9.6 or 56 kbps.

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544, 3.152, 6.312, 44.736 or 274.176 Mbps.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

Detailed descriptions of each of the channel types are provided in 7.4 through 7.8 following.

The customer also has the option of ordering Voice Grade and High Capacity facilities (i.e., 1.544 Mbps, 3.152 Mbps, 6.312 Mbps, 44.736 Mbps and 274.176 Mbps) to Telephone Company hubs for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the hubs, as well as the number of individual channels which may be derived from each type of facility are set forth in 7.4 and 7.8 following. Additionally, the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are set forth in 7.2.1 following.

For example, a customer may order a 3.152 Mbps High Capacity channel from a customer designated premises to a Telephone Company hub for multiplexing to two 1.544 Mbps channels. The 1.544 Mbps channels may be further multiplexed at the same or a different hub to Voice Grade channels or may be extended to other customer designated premises or hubs. Optional features may be added to either the 1.544 Mbps or the Voice Grade channels.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions

For the purposes of ordering, there are five categories of Special Access Service. These are:

Service Designator Codes

Voice	VG
Program Audio	AP
Video	TV
Digital Data	DA
High Capacity	HC

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Technical specifications packages are described in Section 14 following, optional features and functions are described in this section. Channel interfaces are described in 14.2 following.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be advised and given the opportunity to change the order.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions (Cont'd)

The channel descriptions provided in 7.4 through 7.8 following, specify the characteristics of the basic channel and indicate whether the channel is provided between customer designated premises, between a customer designated premises and a Telephone Company hub where bridging or multiplexing functions are performed, between hubs, or between a customer designated premises and a WATS Serving Office, or between a customer designated premises and an DSL Access Service Connection Point.

- (A) Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in matrices set forth in 14.2 following.
- (B) Channel interfaces at each Point of Termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical, but communications can only be provided between compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in 14.2 following, in a combination format.
- (C) Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth in (F) following. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Service Descriptions (Cont'd)

- (D) The optional features and functions available with each type of Special Access Service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in matrices set forth in 14.2 following with the optional feature or function listed down the left side and the technical specifications package listed across the top.
- (E) The Telephone Company will maintain services installed prior to April 1, 1985, at their existing transmission specifications provided such performance specifications do not exceed the standards listed in this provision. Those services exceeding the standards listed will be maintained at the performance levels specified in this tariff.
- (F) All services installed after April 1, 1985 will conform to the transmission specifications standards contained in this tariff or in the following Technical References for each category of service:

Voice Grade	TR-TSY-000335 PUB 41004, Table 4
Program Audio	TR-NPL-000337 and associated Addendum
Video	TR-NPL-000338
Digital Data	TR-NPL-000341 and associated Addendum PUB 62310
For 19.2 Kbps	INC Bulletin CB-INC-100
For 64.0 Kbps	AT&T PUB 62310
High Capacity	TR-INS-000342 TR-NPL-000054 PUB 62411

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations

There are two types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

(A) Two-Point Service

A two-point service connects two customer designated premises, either on a directly connected basis or through a hub where multiplexing functions are performed, or a customer designated premises and a DSL Access Service Connection Point, or a customer designated premises and a WATS Serving Office (WSO).

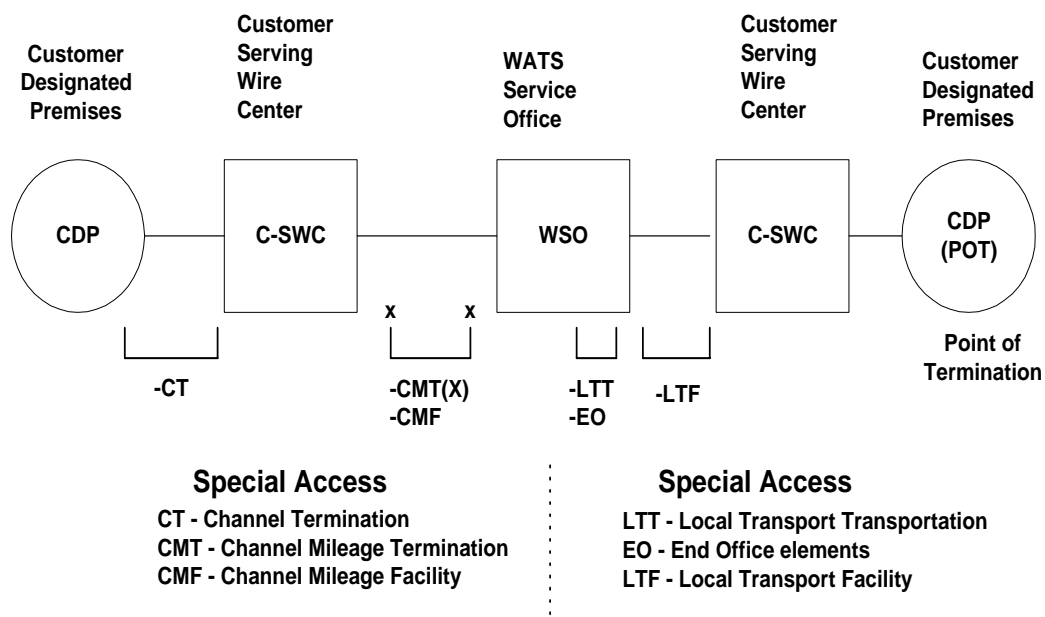
Applicable rate elements are:

- Channel Terminations
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(A) Two-Point Service (Cont'd)

The following diagram depicts a Two-Point Voice Grade service connecting a customer designated premises to a WATS serving office.



Applicable rate elements for Special Access are:

- Channel Termination
- Channel Mileage
- .2 Channel Mileage Terminations plus
- .1 section, Channel Mileage Facility per mile
- Special Access Surcharge*

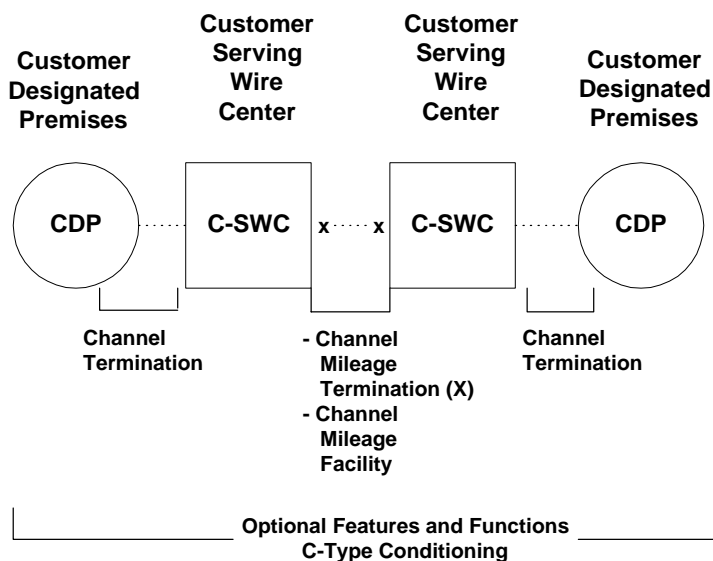
* May not apply if exemption certification is provided.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(A) Two-Point Service (Cont'd)

A Special Access Surcharge, as set forth in 7.3 following, may be applicable.

The following diagram depicts a Two-Point Voice Grade service connecting two Customer Designated Premises to (CDP). The service is provided with C-Type conditioning.



Applicable rate elements for Special Access are:

- Channel Termination (applicable one (1) per CDP)
- Channel Mileage
- .2 Channel Mileage Terminations plus
- .1 section, Channel Mileage Facility per mile
- C-Type Conditioning Optional Feature

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(B) Multipoint Service

Multipoint service connects three or more customer designated premises through one or more Telephone Company hubs. Only certain types of Special Access Service are provided as multipoint service. These are so designated in the descriptions for the appropriate channel.

The channel between hubs (i.e., bridging locations) on a multipoint service is a mid-link. There is no limitation on the number of mid-links available with a multipoint service. However, when more than three mid-links in tandem are provided the quality of the overall service may be degraded.

Multipoint service utilizing a customized technical specifications package, as set forth in 7.1.2 preceding and 14.2 following, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will specify the desired bridging hub(s). NATIONAL EXCHANGE CARRIER ASSOCIATION TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations and the type of bridging functions available.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

Applicable Rate Elements are:

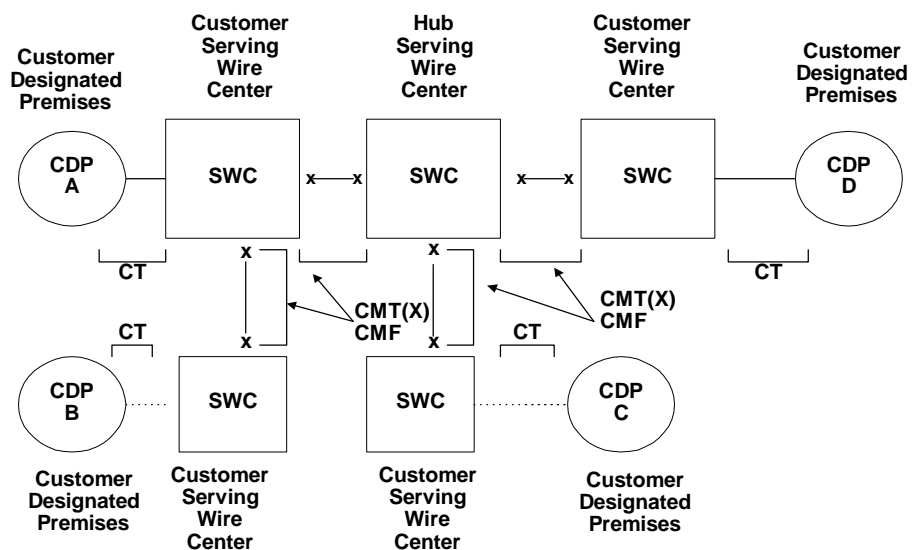
- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable between the serving wire center for each customer designated premises and the hub and between hubs).
- Bridging
- Additional Optional Features and Functions (when applicable).

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(B) Multipoint Service (Cont'd)

The Special Access Surcharge, as set forth in 7.3 following, may be applicable.

Example: Voice Grade multipoint service connecting four customer designated premises (CDP) via two customer specified bridging hubs.



CT - Channel Termination
CMT - Channel Mileage Termination
CMF - Channel Mileage Facility

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(B) Multipoint Service (Cont'd)

Applicable rate elements are:

- Channel Terminations (4 applicable)
- Channel Mileage
 - 2 Channel Mileage Terminations per Channel Mileage Facility section for a total of 8 plus
 - 4 sections, Channel Mileage Facility per mile
- Bridging Optional Feature (6 applicable, i.e., each bridge port)

7.1.4 Alternate Use

Alternate Use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual case basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis and filed in Section 12 following, Specialized Service or Arrangements. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered [i.e., Channel Terminations, Channel Mileage (as applicable) and Optional Features and Functions (if any)].

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.5 Special Facilities Routing

A customer may request that the facilities used to provide Special Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are set forth in Section 11 following.

7.1.6 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the make-up of the facilities and services provided under this tariff as Special Access Service to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

7.1.7 Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test the following at the time of installation:

- (A) For Voice Grade analog services, the acceptance test will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise when these parameters are applicable and specified in the order of service. Additionally, for Voice Grade services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.7 Acceptance Testing (Cont'd)

- (B) For other analog services and for digital services (i.e., Digital Data and High Capacity), acceptance tests will include tests applicable to the service as specified by the customer in the order for service.

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade service to test other parameters, as described in 13.3.1(B) following, is available at the customer's request. All test results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order provisions set forth in Section 5 preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.).

7.2 Rate Regulations

This section contains the specific regulations governing the rates and charges that apply for Special Access.

7.2.1 Rate Categories

There are three basic rate categories which apply to Special Access Service:

- Channel Terminations (described in 7.2.1(A) following)
- Channel Mileage (described in 7.2.1(B) following)
- Optional Features and Functions (described in 7.2.1(C) following).

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(A) Channel Termination

The Channel Termination rate category recovers the costs associated with the communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability is provided as an optional feature as set forth in (C) following. One Channel Termination charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are collocated in a Telephone Company building.

For DS3 High Capacity Service, the Channel Termination rates are made up of the DS3 Facility rate and the DS3 Channel Interface Connection rate. The Facility rate is dependent upon the capacity ordered (i.e., Facility of 3, 6 or 9) and may be applicable at each customer designated premises. The capacity ordered is the maximum number of DS3 services that can be terminated on a given Facility at the customer designated premises (e.g., a capacity of 3

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(A) Channel Termination (Cont'd)

can terminate 1, 2, or 3 DS3 Channel Interface Connections).
The DS3 Facility may be customer provided.

One DS 3 Channel Interface Connection rate applies per customer designated premises at which the channel is terminated for each DS3 channel that is ordered. This charge applies whether or not the DS3 Facility is customer provided. These charges will apply even if the customer designated premises and the serving wire center are collocated in a Telephone Company building, except as follows.

For a 44.736 Mbps High Capacity Service connecting a customer designated premises to a DSL Access Service Connection Point as described in Section 8, following, there will be a charge for only one Channel Termination. However, for a 44.736 Mbps High Capacity Service connecting a customer designated premises to a DSL Access Service Connection Point where the customer is collocated in the same central office as the DSL Access Service Connection Point, the Channel Termination Charge is waived.

ACCESS SERVICE

7. Special Access Service (Cont'd)*

7.2 Rate Regulations (Cont'd)

7.2.1 Rate Categories (Cont'd)

(B) Channel Mileage

The Channel Mileage rate category recovers the costs associated with the end office equipment and the transmission facilities between the serving wire centers associated with two customer designated premises, between a serving wire center associated with a customer designated premises and a Telephone Company hub or between two Telephone Company hubs. Channel Mileage rates are made up of the Channel Mileage Facility rate and the Channel Mileage Termination rate.

(1) Channel Mileage Facility

The Channel Mileage Facility rate recovers the per mile cost for the transmission path which extends between the Telephone Company serving wire centers and/or hub(s).

ACCESS SERVICE

7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(B) Channel Mileage (Cont'd)(2) Channel Mileage Termination

The Channel Mileage Termination rate recovers the cost for end office equipment associated with terminating the facility (i.e., basic circuit equipment and terminations at serving wire centers and hubs). The Channel Mileage Termination rate will apply at the serving wire center(s) for each customer designated premises and Telephone Company hub where the channel is terminated. If the Channel Mileage is between Telephone Company bridging hubs, the Channel Mileage Termination rate will apply per Telephone Company designated hub. If the Channel Mileage is between the serving wire center for a customer designated premises and a WATS Serving Office, the Channel Mileage Termination rate will apply at both the serving wire center associated with the customer designated premises and the WATS Serving Office. When the Channel Mileage Facility is zero (i.e., collocated serving wire centers), neither the Channel Mileage Facility rate nor the Channel Mileage Termination rate will apply.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(C) Optional Features and Functions

The Optional Features and Functions rate category recovers the costs associated with optional features and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element. Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.1 Rate Categories (Cont'd)(C) Optional Features and Functions (Cont'd)

A hub is a Telephone Company designated serving wire center at which bridging or multiplexing functions are performed. The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth. NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations, and the type of bridging or multiplexing functions available.

Descriptions for each of the available Optional Features and Functions are set forth in 7.4 through 7.8 following.

7.2.2 Types of Rates and Charges

There are three types of rates and charges. These are monthly rates, daily rates and nonrecurring charges. The rates and charges are described as follows:

(A) Monthly Rates

Monthly rates are recurring rates that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have 30 days.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(B) Daily Rates

Daily rates are recurring rates that apply to each 24-hour period or fraction thereof that a Program Audio or Video Special Access Service is provided for part-time use. For purposes of applying daily rates, the 24-hour period is not limited to a calendar day.

Part-time Video or Program Audio Service provided within a consecutive 30-day period will be charged the daily rate, not to exceed the monthly rate. For each day or partial day after a consecutive 30-day period of service, a charge equal to 1/30th of the monthly rate shall apply.

(C) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service rearrangements. These charges are in addition to the Access Order Charge as specified in 16.4.1 following.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are set for each channel type as a nonrecurring charge for the Channel Termination.

(2) Installation of Optional Features and Functions

When optional features and functions are installed coincident with the initial installation of service, no separate nonrecurring charge is applicable. When optional features and functions are installed or changed subsequent to the installation of service, an Access Order Charge as specified in 16.4.1 following will apply per order.

(3) Service Rearrangements

Service rearrangements are changes to existing (installed) services which may be administrative only in nature, as set forth following, or that involve actual physical change to the service. Changes to pending orders are set forth in 5.4 preceding.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Rearrangements (Cont'd)

Changes in the physical location of the point of termination or customer designated premises are moves as set forth in 7.2.3 following.

Changes in the type of Service or Channel Termination which result in a change of the minimum period requirement will be treated as a discontinuance of the service and an installation of a new service.

Changes in ownership or transfer of responsibility from one customer to another will be treated as a discontinuance of the service and an installation of a new service. In the event the change in ownership or transfer of responsibility is as set forth in 2.1.2(A) preceding where there is no change in facilities or arrangements, the change will be treated as an administrative change.

Administrative changes will be made without charge(s) to the customer. Administrative changes are as follows:

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Rearrangements (Cont'd)

- Change of customer name,
- Change of customer or customer's end user premises address when the change of address is not a result of physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number),
- Change of agency authorization
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of jurisdiction.

All other service rearrangements will be charged as follows:

- If the change involves the addition of other customer designated premises to an existing service, the nonrecurring charge for the channel termination rate element will apply. The charge(s) will apply only for the location(s) that is being added. The charge(s) will be in addition to an Access Order Charge as set forth in 16.4.1 following.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.2 Types of Rates and Charges (Cont'd)(3) Service Rearrangements (Cont'd)

- If the change involves the addition of an optional feature or function (with the exception of the addition of Clear Channel Capability to an existing service), or if the change involves changing the type of signaling on a Voice Grade service, and for all other changes, the Access Order Charge as set forth in 16.4.1 following will apply.
- When the Clear Channel Capability optional feature is installed on an existing facility, the addition will be treated as a discontinuance and start of service and all associated non-recurring charges will apply.

7.2.3 Moves

A move involves a change in the physical location of one of the following:

- The Point of Termination at the customer's premises
- The customer's premises

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the nonrecurring (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirements. This charge is in addition to the Access Order Charge as specified in 16.4.1 following.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.3 Moves (Cont'd)(B) Moves To a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

7.2.4 Minimum Periods

The minimum service period for all services except part-time Video and Program Audio services and DS3 High Capacity Service is one month and the full monthly rate will apply to the first month. Adjustments for the quantities of services established or discontinued in any billing period beyond the minimum period are as set forth in 2.4.1(F) preceding. The minimum service period for part-time Video and program Audio services is a continuous 24-hour period, not limited to a calendar day. The minimum service period for DS3 High Capacity service is twelve months.

7.2.5 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage Facility is calculated on the airline distance between the locations involved, i.e.,

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.5 Mileage Measurement (Cont'd)

- the serving wire centers associated with two customer designated premises,
- a serving wire center associated with a customer designated premises and a Telephone Company hub,
- a serving wire center associated with a customer designated premises and a DSL Access Service Connection Point,
- two Telephone Company hubs
- or between the serving wire center associated with a customer designated premises and a WATS Serving Office.

The serving wire center associated with a customer designated premises is the serving wire center from which this customer designated premises would normally obtain dial tone.

Mileage charges are shown with each channel type. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, as set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4, then multiply the resulting number of miles times the Channel Mileage Facility per mile rate, and add the Channel Mileage Termination rate for each termination. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage and applying the rates. When more than one Telephone Company is involved in the provision of service, billing will be accomplished as set forth in 2.4.7 preceding.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.5 Mileage Measurement (Cont'd)

When hubs are involved, mileage is computed and rates applied separately for each section of the Channel Mileage, i.e.,

- customer designated premises serving wire center to hub,
- hub to hub and/or
- hub to customer designated premises serving wire center.

However, when any service is routed through a hub for purposes other than customer specified bridging or multiplexing (e.g., the Telephone Company chooses to so route for test access purposes), rates will be applied only to the distance calculated between the serving wire centers associated with the customer designated premises.

See the service configuration example for multipoint service as set forth in 7.1.3(B) preceding.

7.2.6 Facility Hubs

A customer has the option of ordering Voice Grade service or High Capacity services (i.e., DS1, DS1C, DS2, DS3 or DS4) to a facility hub for channelizing to individual services requiring lower capacity facilities (e.g., Voice, Program Audio, etc.).

Different locations may be designated as hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. When placing an Access Order the customer will specify the desired hub.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.6 Facility Hubs (Cont'd)

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4 identifies serving wire centers, hub locations, hub level and the type of multiplexing functions available.

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- from high capacity to voice frequency channels.

Point to point services may be provided on channels of these services to a hub. The transmission performance for the point to point service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps channel is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not High Capacity.

The Telephone Company will commence billing the monthly rate for the service to the hub on the date specified by the customer on the Access Order. Individual channels utilizing these services may be installed coincident with the installation of the service to the hub or may be ordered and/or installed at a later date, at the option of the

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.6 Facility Hubs (Cont'd)

customer. The customer will be billed for a Voice Grade or a High Capacity Channel Termination, Channel Mileage (when applicable), and the multiplexer at the time the service is installed. Individual service rates (by service type) will apply for a Channel Termination and additional Channel Mileage (as required) for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading multiplexing occurs when a High Capacity service is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further duplexed. For example, a 6.312 Mbps High Capacity service is de-multiplexed to four DS1 channels and then one of the DS1 channels is further de-multiplexed to 24 individual Voice Grade channels.

When cascading multiplexing is performed, whether in the same or a different hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different hubbing locations, Channel Mileage charges also apply between the hubs.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.6 Facility Hubs (Cont'd)

The Telephone Company will designate hubs for Program Audio and Video Services. Full-time or part-time service may be provided between customer designated premises or between a customer designated premises and a hub and billed accordingly at the monthly rates set forth in 16.3.3 and 16.3.4 following for a Channel Termination, Channel Mileage and Optional Features and Functions, as applicable.

When the service is ordered to a hub, the customer may order a full-time or part-time Video and Program Audio services as needed between that hub and additional customer designated premises. The rate elements required to provide the part-time service (i.e., Channel Termination, Channel Mileage and Optional Features and Functions, as applicable) will be billed at daily rates for the duration of the service requested.

7.2.7 Mixed Use Analog and Digital High Capacity Services

Mixed use refers to a rate application applicable only when the customer orders High Capacity Special Access facilities between a customer designated premises and a Telephone Company hub where the Telephone Company performs multiplexing/de-multiplexing functions and the same customer then orders the derived channels as Special and Switched Access Services. If the customer has Switched Access Service between a customer designated premises and an end office that is multiplexed at a Telephone Company hub and subsequently orders the derived channels as Special and Switched Access Service, rates and charges will apply as if the service were ordered as mixed use.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.7 Mixed Use Analog and Digital High Capacity Services (Cont'd)

Except as noted previously, the High Capacity facility will be ordered, provided and rated as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexing Arrangement). The nonrecurring charge that applies when the mixed use facility is installed will be the nonrecurring charge associated with the appropriate Special Access High Capacity Channel Termination. Rating as Special Access will continue until such time as the customer chooses to use a portion of the available capacity for Switched Access Service (i.e., Switched or Special Access) nonrecurring charges will not apply to the individual channels of the mixed use facility.

When Special Access Service is provided utilizing a channel of the mixed use facility to a hub, High Capacity rates and charges will apply for the facility to the hub, as set forth preceding, and individual service rates and charges will apply from the hub to the customer designated premises. The rates and charges that will apply to the portion from the hub to the customer designated premises will be dependent on the specific type of Special Access Service that is provided (e.g., Voice Grade, etc.). The applicable rates and charges will include a Channel Termination and Channel Mileage, if applicable. Rates and charges for optional features and functions associated with the service, if any, will apply for the appropriate channel type.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Rate Regulations (Cont'd)7.2.7 Mixed Use Analog and Digital High Capacity Services (Cont'd)

As each individual channel is activated for Switched Access Service, the High Capacity Special Access Channel Termination, Channel Mileage, and Multiplexing rates will be reduced accordingly (e.g., 1/24th for a DS1 service, 1/672nd for DS3 service, etc.).

Switched Access Service rates and charges, as set forth in 16.2 following, will apply for each channel of the standard use facility that is used to provide a Switched Access Service. Additionally, the Switched Access Service Entrance Facility, Direct Trunked Transport, and Multiplexing charges, if applicable, will be reduced by multiplying their respective rates by the ratio of derived Switched Access Service channels to the total number of Voice Grade channels that can be derived.

The customer must place an order for each individual Switched or Special Access Service utilizing the Mixed Use Facilities and specify the channel assignment for each such service.

ACCESS SERVICE

7.3 Surcharge for Special Access7.3.1 General

Special access services provided under this tariff may be subject to the monthly Special Access Surcharge.

7.3.2 Application

- (A) The Special Access Surcharge will apply to each interstate Special Access Service that terminates on an end user's PBX or other device, where through a function of the device, the Special Access Service interconnects to the local exchange network. Interconnection functions include, but are not limited to, wiring and software functions, bridging, switching or patching of calls or stations. The Surcharge will apply irrespective of whether the interconnection function is performed in equipment located at the customer's premises or in a Centrex CO-type switch.
- (B) Special Access Service will be exempted from the Surcharge by the Telephone Company upon receipt of the customer's written certification for the following Special Access Service terminations:
 - (1) an analog channel termination that is used for radio or television program transmission; or
 - (2) a termination used for TELEX service; or
 - (3) a termination that by the nature of its operating characteristics could not make use of Telephone Company common lines such as, terminations which are restricted through hardware or software; or

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service (Cont'd)

7.3.2 Application (Cont'd)

- (4) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to charges such as, where the Special Access Service accesses only FGA and no local exchange lines, or Special Access Service between customer points of termination; or (C)
- (5) a termination that the customer certifies to the Telephone Company is not connected to a PBX or other device which interconnects the Special Access Service to a local exchange subscriber line.

7.3.3 Exemption of Special Access Service

- (A) Special Access Services which are terminated as set forth in 7.3.2(B) preceding will be exempted from the Special Access Surcharge if the customer provides the Telephone Company with written exemption certification. The certification may be provided to the Telephone Company as follows:

- at the time the Special Access Service is ordered or installed.
- at the time the Special Access Service is ordered or installed;
- at such time as the service is reterminated to a device which does not interconnect the service to local exchange facilities; or

(D)
(D)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Surcharge for Special Access Service (Cont'd)

7.3.3 Exemption of Special Access Service (Cont'd)

- (B) The exemption certification is to be provided by the customer ordering the service. The certification must be signed by the customer or authorized representative and include the category of exemption, as set forth in 7.3.2(B) preceding, for each termination, and the date which the exemption is effective.
- (C) The customer shall also notify the Telephone Company when an exempted Special Access Service is changed or reterminated such that the exemption is no longer applicable.
- (D) The Telephone Company will work cooperatively with the customer to resolve any questions regarding the exemption certification. In addition, the Telephone Company may withhold exemption of the service until the questions are resolved.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service (Cont'd)7.3.4 Rate Regulations

- (A) The surcharge will apply as set forth in 7.3.2(A) preceding, except that a surcharge will be assessed on a per voice grade equivalent basis for Special Access Services derived from High Capacity Special Access Services as illustrated in the following example:

<u>Special Access Service</u>	<u>Voice Grade Equivalent</u>	<u>Surcharge</u>	<u>Monthly Charge</u>
DS1	24	x \$25	= \$600.00

The preceding example illustrates the maximum number of surcharges applicable to a DS1. If the customer claims exemption(s) as set forth in 7.3.3 preceding or, is not utilizing all available voice grade equivalents and has spare capacity, the number of surcharges would be reduced accordingly.

In the case of multipoint Special Access Services, one Special Access Surcharge will apply for each termination of a Special Access Channel at an end user's premises.

- (B) The Telephone Company will bill the appropriate Special Access Surcharge to the ordering customer for each interstate Special Access Service installed unless exemption certification is provided as set forth in 7.3.3 preceding.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Surcharge for Special Access Service (Cont'd)7.3.4 Rate Regulations (Cont'd)

- (C) If a written certification is not received at the time the Special Access Service is obtained, the Surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations set forth in (D) following.
- (D) The Telephone Company will cease billing the Special Access Surcharge when certification, as set forth in 7.3.3. preceding, is received. If the status of the Special Access Service was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account, not to exceed ninety (90) days, based on the effective date of the change as specified by the customer in the letter of certification.

7.4 Voice Grade Service7.4.1 Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Telephone Company hub or hubs, or between a customer designated premises and a WATS Serving Office (WSO).

ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Voice Grade Service (Cont'd)7.4.1 Basic Channel Description (Cont'd)

Voice Grade Special Access services are typically used for voice and voiceband data applications. Typical examples of voice grade circuits are Foreign Exchange lines (station end only), multipoint private line, voice trunk type, two-point voice grade data (one-way or simultaneous two-way), multipoint voice grade data, and voice grade telephoto or facsimile. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Voice Grade Service are as set forth in 16.3.2 following.

7.4.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 14.2.1(A) following. Compatible network channel interfaces are set forth in 14.2.2(C)(1) following.

7.4.3 Optional Features and Functions(A) Central Office Bridging Capability

- (1) Voice Bridging (two-wire and four-wire)
- (2) Data Bridging (two-wire and four-wire)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Voice Grade Service (Cont'd)7.4.3 Optional Features and Functions (Cont'd)(A) Central Office Bridging Capability (Cont'd)

The rates for these options are set forth in 16.3.2(C)(1) following.

(B) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. The rates for these options are set forth in 16.3.2(C) following.

For two-point services, the parameters apply to each service as measured end-to-end. For multipoint services, the parameters apply as measured on each mid-link or as measured on each end link. C-Type conditioning and Data Capability may be combined on the same service.

(1) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are delineated in Technical Reference TR-TSY-000335.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Voice Grade Service (Cont'd)7.4.3 Optional Features and Functions (Cont'd)(B) Conditioning (Cont'd)(2) Data Capability (D Conditioning)

Data Capability provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or three-point multipoint services.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameter for Data Capability are delineated in Technical Reference TR-TSY-000335. The rate for this option is set forth in 16.3.2(C)(2) following.

When a service equipped with Data Capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

(C) Improved Return Loss

- (1) On Effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each Two-Wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Voice Grade Service (Cont'd)7.4.3 Optional Features and Functions (Cont'd)(C) Improved Return Loss (Cont'd)

Telephone Company equipment is required at the customer's premises where this option is ordered. The Improved Return Loss parameters are delineated in Technical Reference TR-TSY-000335. The rate for this option is set forth in 16.3.2(C)(3) following.

- (2) On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT. The Improved Return Loss parameters are delineated in Technical Reference TR-TSY-000335. The rate for this option is set forth in 16.3.2(C)(3) following.

(D) Signaling Capability

Signaling Capability provides for the ability to transmit signals from one customer premises to another customer premises on the same service. The rate for this option is set forth in 16.3.2(C)(4) following.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Voice Grade Service (Cont'd)7.4.3 Optional Features and Functions (Cont'd)(D) Signaling Capability (Cont'd)

The following network channel interfaces for Voice Grade service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following network channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF. The signalling capability charge will not apply when used in the provision of WATS access service.

(E) Four-Wire/Two-Wire Conversions

When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer designated premises, a four-wire to two-wire conversion is required. The customer will be charged the four-wire Channel Termination rate as set forth in 16.3.2(A) following when an effective four-wire is specified in the order for service. The rate for the conversion is included as part of the basic four-wire Channel Termination rate.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.5 Program Audio Service7.5.1 Basic Channel Description

A Program Audio channel is a channel with bandwidth measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs.

Program Audio Special Access services are typically used in full-time and part-time applications for radio broadcasting, noncommercial educational audio, and wired music. These examples of applications are not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use.

Rates and charges for Special Access Program Audio Service are as set forth in 16.3.3 following.

7.5.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 14.2.1(B) following. Compatible network channel interfaces are set forth in 14.2.2(C)(2) following.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Video Service7.6.1 Basic Channel Description

A channel for the digital transmission of a standard North American Television Standards Committee (NTSC) video signal at a bit rate of 1.544 or 44.736mbps.

The equipment necessary to provide Video Conferencing and Miscellaneous Video Distribution services on DS1/T1 facilities follows:

A. DS1 Video Teleconferencing - Duplex

This service provisions a full duplex (transmit and receive) video teleconferencing link over DS1/T1 facilities. The codec for this service operates at line rate of 64 Kbps to E1 (2.048 Mbps).

Customer premise site A - video and audio (transmit and receive) signal from a standard (H.261) video teleconferencing unit is coupled via coax cable to multiple rate (nx64 Kbps) video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Central office facilities - Standard repeated or repeaterless T1 facilities are used between central offices and customer premises to provide video signal transport. Metallic or fiber optic span line equipment can be used to transport the video signal between central offices.

Customer premise site B - same equipment as site A.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Video Service7.6.1 Basic Channel DescriptionsB. DS1 Video Teleconferencing - Simplex

This service provisions a simplex (transmit only) video teleconferencing link over DS1/T1 facilities. The codec for this service operates at line rates of 64 Kbps to E1 (2.048 Mbps).

Customer premise site A - video and audio (transmit only) signal from a standard (H.261) video teleconferencing unit is coupled via coax cable to a multiple rate (nx64 Kbps) video codec unit (drop side). The video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Central office facilities - Same equipment as Duplex facilities above.

Customer premise site B - video and audio (receive only) signal to a standard (H.261) video teleconferencing unit is coupled via coax cable to a multiple rate (nx64 Kbps) video codec unit (drop side). The video codec (line side) is coupled via coax to DSU/CSU which terminates the line provided on local central office facilities.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.6 Video Service7.6.1 Basic Channel DescriptionC. DS1 Video Distribution - Simplex

This service provisions a simplex (transmit only) video distribution link (video jukebox, local hockey or basketball game etc.) over DS1/T1 facilities. The codec for this service operates at a line rate of T1 (1.544 Mbps).

Customer premise site A - video and audio (transmit only) signal from a standard NTSC video source is coupled via coax cable to a 1.544 Mbps video codec unit (drop side). The video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Central office facilities - Same as Duplex facilities above.

Customer premise Site B - video and audio (receive only) signal to a standard NTSC video receiving unit is coupled via coax cable to a 1.544 Mbps video codec unit (drop side). The video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Rates and charges for Special Access Video Service are set forth in 16.3.4 following.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Digital Data Service7.7.1 Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56.0 or 64* Kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are provided as either hubbed or non-hubbed services between customer designated premises and a Telephone Company hub or hubs. The hubs providing hubbed digital service are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. Wire Center Information, Tariff F.C.C. No. 4.

The customer may provide the Channel Service Unit-type equipment or other Network Channel Terminating Equipment associated with the Digital Data channel at the customer premises.

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds (if provided through a Digital Data hub) while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Rates and charges for Special Access Digital Data Service are as set forth in 16.3.5 following.

*When 64.0 Kbps service is multiplexed on a DS-1 High Capacity Service, The DS-1 must be equipped to provide a Clear Channel Capability. 64.0 Kbps service is offered to Utility customers subject to the availability of facilities and to Utility engineering and network constraints.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.7 Digital Data Service (Cont'd)7.7.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 14.2.1(D) following. Compatible channel interfaces are set forth in 14.2.2(C)(3) following.

The following network channel interfaces (NCIs) define the bit rates that are available for a Digital Data channel:

<u>NCI</u>	<u>Bit Rate</u>
DU-24	2.4 Kbps
DU-48	4.8 Kbps
DU-96	9.6 Kbps
DU-19	19.2 Kbps
DU-56	56.0 Kbps
DU-64	64.0 Kbps

7.7.3 Optional Features and Functions

The Optional Features and Functions described following is only available where Digital Data Service is provided via a hub.

Central Office Bridging Capability

The table set forth in 14.2.1(D) following shows the technical specifications packages with which the optional feature and function is available. Bridging is not available on a 64.0 Kbps channel.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.8 High Capacity Service7.8.1 Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 Kbps* or 1.544, 3.152, 6.132, 44.736, or 274.176 Mbps isochronous serial data. The actual bit rate is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub or hubs. In addition, a 44.746 Mbps High Capacity Service channel may be provided between a customer designated premises and a Telephone Company designated DSL Access Service Connection Point.

The customer may provide the Network Channel Terminating Equipment associated with the High Capacity channel at the customer's premises.

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24 hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

Rates and charges for Special Access High Capacity Service are as set forth in 16.3.6 following.

* Available only as a channel of 1.544 Mbps facility to a Telephone Company Digital Data hub or as a cross connect of two 2.4, 4.8, 9.6, 56.0 or 64.0 Kbps channels of two 1.544 Mbps facilities to a Digital Data hub(s). The customer must provide system and channel assignment data.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.8 High Capacity Service (Cont'd)7.8.2 Technical Specifications Packages and Network Channel Interfaces

Technical Specifications Packages are set forth in 14.2.1(E) following. Compatible channel interfaces are set forth in 14.2.2(C)(4) following.

The following network channel interfaces (NCIs) define the bit rates that are available for a High Capacity channel:

<u>NCI</u>	<u>Bit Rate</u>
DS-15*	1.544 Mbps (DS1)
DS-27	274.176 Mbps (DS4)
DS-31	3.152 Mbps (DS1C)
DS-44	44.736 Mbps (DS3)
DS-63	6.312 Mbps (DS2)

7.8.3 Optional Features and Functions(A) Automatic Loop Transfer

The Automatic Loop Transfer provides protection on a 1xN basis against failure of the facilities between a customer designated premises and the wire center serving that premises. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel line when a working line fails. The spare channel is not included as a part of the option. This option requires compatible equipment at

* A 64.0 Kbps channel is available as a channel(s) of a 1.544 Mbps channel to a Telephone Company hub.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.8 High Capacity Service (Cont'd)7.8.3 Optional Features and Functions (Cont'd)(A) Automatic Loop Transfer (Cont'd)

both the serving wire center and the customer designated premises. The customer is responsible for providing the equipment at its designated premises. Equipment at the customer designated premises will be provided under tariff only if it existed in the Telephone Company inventory as of November 18, 1983.

(B) Central Office Multiplexing(1) DS4 to DS1

An arrangement that converts a 274.176 Mbps channel to 168 DS1 channels using digital time division multiplexing.

(2) DS3 to DS1

An arrangement the converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

(3) DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time division multiplexing.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.8 High Capacity Service (Cont'd)7.8.3 Optional Features and Functions (Cont'd)(C) Central Office Multiplexing (Cont'd)(4) DS1C to DS1

An arrangement that converts a 3.152 Mbps channel to two DS1 channels using digital time division multiplexing.

(5) DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with Voice Grade Services. A channel(s) of this DS1 to the Hub can also be used for a Digital Data Service.

(6) DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 64.0 Kbps channels utilizing digital time division multiplexing.

(7) DS0 to Subrate

An arrangement that converts a 64.0 Kbps channel to subspeeds of up to twenty 2.4 Kbps, ten 4.8 Kbps, or five 9.6 Kbps channels using digital time division multiplexing.

The table set forth in 14.2.1(E) following shows the technical specifications packages with which the optional features and functions are available.

ACCESS SERVICE

7. Special Access Service (Cont'd)7.8 High Capacity Service7.8.3 Optional Features and Functions (Cont'd)(D) Clear channel Capability (CCC)

- (1) CCC is an arrangement that allows a customer to transport 1.536 Mbps information rate signals over a 1.544 Mbps High Capacity channel or over a 1.544 Mbps High Capacity channel derived from a multiplexed 44.736 Mbps High Capacity channel with no constraint on the quantity or sequence of one and zero bits. This arrangement requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code as described in Technical Reference TR-NPL-000054 and Technical Reference TR-INS-000342.
- (2) CCC is provided subject to availability of facilities, on DS1/1.544 Mbps High Capacity channels between two customer designated premises and on multiplexed DS3/44.736 Mbps High Capacity channels or multiplexed DS1/1.544 Mbps High Capacity channels* between a telephone company hub office and a customer designated premises. The wire centers providing CCC are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION INC., WIRE CENTER INFORMATION, TARIFF F.C.C. NO. 4.
- (3) The CCC optional feature may be ordered at the same time the High Capacity service is ordered or it may be ordered as an addition to an existing High Capacity Service. The customer must agree to put out-of-service periods required to add this feature to an existing High Capacity Service. The charges for the CCC optional feature are as set forth in 7.2.2(C)(3) preceding.

* Available only on a DS1-to-Digital multiplexed configuration.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.8 High Capacity Service

7.8.3 Optional Features and Functions (Cont'd)

(E) DSL Access Service Connection

- (1) The DSL Access Service Connection function provides for the interconnection of a 44.736 Mbps High Capacity Service, or a 100 Mbps Ethernet Service, with DSL Access Service as described in Section 8, following.

Rates and charges for the DSL Access Service Connection function are as set forth in Section 16.3.6, following. This function applies to each 44.736 Mbps High Capacity Service, or 100 Mbps Ethernet Service, terminated at an DSL Access Service Connection Point.

(M)

(M)

7.9. Reserved for Future Use

(N)

(M) Material relocated to Original Sheet 7-62.

ACCESS SERVICE

Reserved for Future Use.

(N)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.10 Transparent LAN Service-High Speed ("TLS")7.10.1 Service Description

Transparent LAN Service-High Speed ("TLS") is a high speed (10 Mbps, 100 Mbps and 1 Gbps) shared transport service for the interconnection of Wide Area Networks ("WANs") and Local Area Networks ("LANs"). A LAN is a network permitting the interconnection and intercommunication of a group of computers while a Wide Area Network typically extends outside the building to link with other LANs. (C)

TLS serves as a WAN or LAN extension by providing a virtual private circuit that utilizes public transport. The service is bi-directional, providing high capacity service over private virtual circuits.

The electrical signals provided by TLS are put onto suitable facilities for transport to the network management equipment in a Company central office. (C)

TLS is provided over suitable facilities, and can be provided on a point-to-point or multi-point basis. Where possible, service will be provided over existing Company facilities. (C)

A. Service Elements

1. Port Connection – A port connection provides the link from a customer's terminal equipment, at the network interface, to the Company's network supporting TLS. The port connection includes a network interface, and the related fiber optic facility. A monthly rate applies per port.
2. Connection Bandwidth – The Connection Bandwidth connects two or more ports and is charged on a port and bandwidth basis. For TLS rates, see Section 16.3.7.

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.10 Transparent LAN Service-High Speed ("TLS") (Cont'd)

7.10.2 General Regulations

1. TLS is available on a point-to-point or multi-point basis, 24 hours a day, 7 days per week.
2. The number of port connections in a multi-point arrangement is limited by the technological capabilities of the network.
3. TLS utilizes public, shared transport to provide a virtual private circuit arrangement. A non-shared TLS arrangement is not available.
4. TLS complies with the Ethernet standards prescribed under the I.E.E.E. 802.3. Maximum utilization will be typical for Ethernet LAN and may not achieve the full bandwidth rating of the carrier.
5. Equipment interoperability cannot be guaranteed and may vary by manufacturer. In addition, there may be limitations on some proprietary protocols.
6. TLS can only be provided where suitable facilities and equipment are available. Where suitable facilities are not available, it may be necessary to construct such facilities. Special construction may be necessary pursuant to Section 15.1.6(B). Refer to Section 13 for Additional Engineering, Labor and Miscellaneous Services that may apply. (C)
7. For TLS, equipment space furnished by the customer under the terms in Section 2.3, Obligations of the Customer, will be secured by the Company. This space must be accessible exclusively to the Company, as if the Company were a lessee.

ACCESS SERVICE

7. Special Access Service (Cont'd)

(N)

7.10 Transparent LAN Service-High Speed ("TLS") (Cont'd)7.10.3 Rate Regulations

1. The initial order for TLS must be for a fixed service period of one, three, or five years. At the end of the initial service period, the customer has 30 days in which to select an additional term commitment for any of the service periods specified, or may elect the month-to-month option. If the customer does not sign a term commitment by the end of the 30 day period, the customer will automatically be charged the month-to-month rate.
2. A subsequent order to add TLS ports to an existing TLS network must be for a fixed-period of one, three, or five years, or for the remainder of the customer's existing fixed-period service agreement. The minimum service period for additional TLS service elements is 12 months.
3. Ports are priced at the rate for the total number of ports purchased for the term of the agreement. For example, if a customer purchases four 10 Mbps ports and two 100 Mbps ports, the customer is purchasing 6 ports total. The rates applied are four 10 Mbps and two 100 Mbps rates at the 6 port level. Customers with 14 or more ports shall pay the 14 port rate.
4. If a fixed period agreement is terminated prior to the end of the period, the customer is responsible for reimbursing the Company the difference between the rates actually charged and the rates that would have been charged, had the actual period been the original service period, plus a 10% administrative fee. For example, if a customer agrees to a five-year term and cancels service after three years, the Company will charge the customer the difference between the five-year rate and the three-year rate for three years, plus the 10% administrative fee.

(N)

ACCESS SERVICE

7. Special Access Service (Cont'd)7. High Capacity Service (Cont'd)7.10 Transparent LAN Service-High Speed ("TLS") (Cont'd)7.10.3 Rate Regulations

5. If the customer reduces either the number of ports, or total bandwidth, below 70% of their initial fixed period service agreement, the terminated ports will be considered a termination of the fixed period service agreement and reimbursement will be due the Company pursuant to Section 7.10.3.4 on the discontinued ports or bandwidth. In service ports will be re-rated based on the total number of remaining ports.
6. If the customer increases the number of ports after executing the initial term of service agreement, they have two options:
 - 1) sign a fixed term agreement for the additional ports; or
 - 2) request that the new ports be added to an existing fixed period agreement (for not less than 12 months) and re-rate the agreement based on the total number of ports in service.

For example, if the customer has four five-year ports and adds one port two years later, the customer may enter a fixed year agreement for one, three year port, or request the existing fixed term agreement be modified to a five port agreement.

Rates are prospective only when re-rating of fixed term agreements occur because of adding ports, deleting ports, increasing bandwidth, decreasing bandwidth, or extending fixed term agreements.

7. Termination liabilities set forth in Section 7.10.3.4 will be waived for local, state, or federal governments that sign a minimum one-year term commitment with the option for four one-year renewals if termination is caused by a failure to achieve appropriation of funds during the renewal period. (N)

ACCESS SERVICE

7. Special Access Service (Cont'd)

(N)

7. High Capacity Service (Cont'd)7.10 Transparent LAN Service-High Speed ("TLS") (Cont'd)7.10.4 Planned Service Interruption

1. Occasionally, routine maintenance will result in an interruption of service. Planned interruptions of service will be scheduled to occur outside the Company's normal business day as defined in Section 2.6.
2. Customers will be notified 10 working days prior to a planned interruption. The 10 working day notice begins upon the Company's notification to the customers' primary contact, by telephone. This contact will include the date, time, and estimated duration of the service interruption. This telephone contact will represent the Company's compliance with the 10 working day notification requirement.
3. The Company will fax or email the customer confirmation of the scheduled interruption. The Company requests acknowledgement from the customer that this information has been received, however, the Company will proceed with the scheduled maintenance without the customer's acknowledgement.

7.10.5 Transparent LAN Service - High Speed ("TLS") Promotion

Beginning August 18, 2001 and ending March 31, 2002, customers who sign a one, three, or five year fixed period agreement, will receive a credit equal to the Access Order Charge and the nonrecurring charge.

To qualify, customers must request to sign up for the promotion.

If the customer terminates service pursuant to Section 7.10.3.4, the customer will pay all credits received under this promotion in addition to the charges assessed in Section 7.10.3.4. The Company will bill the customer an amount equal to the credits.

(N)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.11 Transparent LAN Service-Lite ("TLS-Lite")7.11.1 Service Description

Transparent LAN Service-Lite ("TLS-Lite") is a 768 Kbps and a (C)
1 Mbps through 9 Mbps transport service for the interconnection of (N)
Ethernet Local Area Networks ("LANs") and Wide Area Networks
(WANs). TLS-Lite is provided over copper facilities and can be
provided on a point-to-point or multi-point basis.

TLS-Lite serves as a LAN extension by providing a virtual private
circuit that utilizes public transport. The service is bi-directional,
providing high capacity service over private virtual circuits.
Customers must subscribe to TLS-Lite Port service or may
interconnect with Transparent LAN Service-High Speed ("TLS") as
a data link.

The electrical signals provided by TLS-Lite at the network interface
meet IEEE 802.3 requirements. At the central office, the network
management information is used to maintain network performance
and integrity.

A. Service Elements

Port Connection – A port connection provides the link from a
customer's terminal equipment, to the Company's network
supporting TLS-Lite. A port connection includes a network
interface, and the related copper facility.

Line Loop Extender – Customers located further than 9,000
feet from the serving wire center may require the use of a Line
Loop Extender. Customers located further than 18,000 feet
may require the use of two Line Loop Extenders.

ACCESS SERVICE

7. Special Access Service (Cont'd) (N)
7. High Capacity Service (Cont'd)
- 7.11 Transparent LAN Service-Lite ("TLS-Lite") (Cont'd)
- 7.11.2 General Regulations
- A. The number of ports in a multi-point arrangement is limited by the technological capabilities of the network.
 - B. When transport occurs between central offices to connect a customer location, customers must purchase a TLS-Lite port per customer location pursuant to Section 16.3.9, or Transparent LAN Service-High Speed ("TLS").
 - C. Equipment space furnished by the customer under the terms in Section 2.3.3 will be secured by the Company. This space must be accessible exclusively to the Company, as if the Company were the lessee.
 - D. TLS-Lite complies with Ethernet standards prescribed under IEEE 802.3. Maximum utilization will be typical for Ethernet LAN and may not achieve the full bandwidth rating of the stated service.
 - E. Equipment interoperability cannot be guaranteed and may vary by manufacturer. In addition, there may be limitations on some proprietary protocols.
 - F. TLS-Lite can only be provided where facilities and equipment are available. Where possible, service will be provided over existing Company facilities. Where suitable facilities are not available, it may be necessary to construct such facilities. Additional charges may be assessed pursuant to Section 15.1.6. These charges are in addition to the TLS-Lite rate elements in Section 16.3.9. (N)

ACCESS SERVICE

7. Special Access Service (Cont'd)7. High Capacity Service (Cont'd)7.11 Transparent LAN Service-Lite ("TLS-Lite") (Cont'd)7.11.3 Rate Regulations

- A. The initial order for TLS-Lite must be for a fixed service period of one, three, or five years. At the end of the initial service period, the customer has 30 days in which to select an additional term commitment for any of the service periods specified, or may elect the month-to-month option. If the customer does not sign a term commitment by the end of the 30-day period, the customers will automatically be charged the month-to-month rate.
- B. Customers may elect to spread their TLS-Lite non-recurring charges over one year. If the customer elects to terminate their fixed period agreement, the customer must remit any unpaid portion of the non-recurring charges to the Company.
- C. A subsequent order to add any TLS-Lite ports to an existing TLS-Lite network must be for a fixed-period of one, three, or five years, or for the remainder of the customer's existing fixed-period service agreement. The minimum service period for additional TLS-Lite ports is 12 months.
- D. Ports are priced at the rate for the total number of ports purchased for the term of the service agreement. Customers with 14 or more ports shall pay the 14-port rate. (C)
(C)
- E. If the customer increases the number of ports after executing the initial term of service agreement, they have two options:
 - 1. sign a fixed term agreement for only the additional port(s); or
 - 2. request that the new port(s) be added to an existing fixed period agreement (for not less than 12 months) and re-rate the agreement based on the total number of ports in service.

ACCESS SERVICE

7. Special Access Service (Cont'd)

(N)

7. High Capacity Service (Cont'd)7.11 Transparent LAN Service-Lite ("TLS-Lite") (Cont'd)7.11.3 Rate Regulations (Cont'd)

For example, if the customer has four ports under a five-year term and adds one port two years later, the customer may enter a fixed term agreement for one port, for three years, or request the existing fixed term agreement be modified to a five port agreement.

F. Rates are prospective only when re-rating of fixed term agreements occur because of adding ports, deleting ports, or extending fixed term agreements.

G. If a fixed period agreement is terminated prior to the end of the period, the customer is responsible for reimbursing the Company the difference between the rates actually charged and the rates that would have been charged, had the actual period been the original service period, plus a 10.5% finance charge, compounded annually. For example, if a customer agrees to a five-year term and cancels service after three years, the Company will charge the customer the difference between the five-year rate and the three-year rate for three years, plus 10.5% finance charge.

H. If the customer reduces the number of ports below 70% of their initial fixed period service agreement, the terminated ports will be considered a termination of the fixed period service agreement and reimbursement will be due the Company pursuant to Section 7.11.3.(G) on the discontinued ports. In-service ports will be re-rated based on the total number of remaining ports.

I. Customers may enter a new fixed-term agreement that extends the term commitment beyond their existing fixed-term agreement at any time with no termination liability.

J. If the Company elects to substitute a customer's TLS-Lite service to a mutually agreed upon service provided by the Company, then the customer is not subject to the termination provisions as outlined in Section 7.11.3(G).

(N)

ACCESS SERVICE

7. Special Access Service (Cont'd)

(N)

7. High Capacity Service (Cont'd)7.11 Transparent LAN Service-Lite ("TLS-Lite") (Cont'd)7.11.3 Rate Regulations

- K. Termination liabilities set forth in sec. 7.11.3(G) will be waived for local, state, or federal governments that sign a minimum one year term commitment with the option for four one-year renewals if termination is caused by a failure to achieve appropriation of funds during the renewal period.

7.11.4 Promotion

Beginning February 12, 2002 and ending September 12, 2002, customers who sign a one, three, or five year fixed term of service agreement for TLS-Lite, will receive a waiver of the Access Order Charge. The waiver will appear as a credit on the customer's billing.

To qualify, customers must request to sign up for the promotion.

If the customer terminates service pursuant to Section 7.11.3(G), the customer will pay all credits received under this promotion in addition to the charges assessed in Section 7.11.3(G). The Company will bill the customer an amount equal to the credits.

(N)

ACCESS SERVICE

7. Special Access Service (Cont'd) (N)

7.12 Individual Case Filings (M)

Certain services set forth in Special Access Service, Section 7 will be provided on an Individual Case Basis.

(M)

(M) Material relocated from Original Page 7-62.

ACCESS SERVICE

8. Digital Subscriber Line Access Services

Digital Subscriber Line Access Services provide transmission services over local exchange service copper facilities that can be used for simultaneous voice and data communications. Service is provided, where available, between a customer's end user's designated premises and designated Telephone Company Serving Wire Centers.

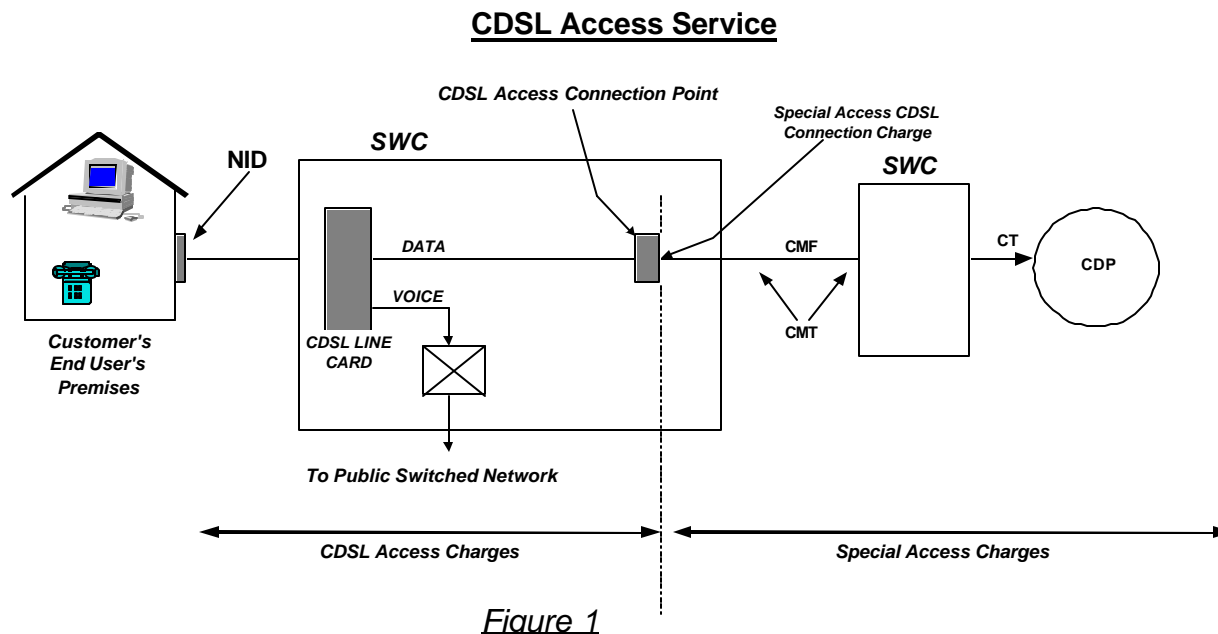
8.1 Consumer Digital Subscriber Line Access Service

8.1.1 General

Consumer Digital Subscriber Line (CDSL) Access Service enables data traffic generated by the customer's end user's equipment to be transported to a CDSL Access Service Connection Point using the customer's end user's local exchange service facilities. At the CDSL Access Service Connection Point, the customer's end user's CDSL Access Service must be connected to the customer's Special Access Services. A CDSL Access Service Connection Point is an interconnection point designated by the Telephone Company that aggregates data traffic from and to Telephone Company CDSL Serving Wire Centers (SWCs). The customer for CDSL Access Service is the subscriber of the Telephone Company's special access service.

A generic view of how CDSL Access Service would be interconnected with a customer's special access network is depicted in the figure following. In this example, the customer's end user's serving wire center is designated as a CDSL Access Service Connection Point. The customer orders CDSL Access Service pursuant to the provisions specified in this section on behalf of their end-user. The CDSL Access Service customer orders Special Access Service pursuant to the provisions specified in Section 7, preceding and Section 16 following, to connect its designated premises to the CDSL Access Service Connection Point.

ACCESS SERVICE

8. Digital Subscriber Line Access Services (Cont'd)8.1 Consumer Digital Subscriber Line Access Service (Cont'd)8.1.1 General (Cont'd)8.1.2 Limitations

CDSL Access Service is available at a maximum upstream speed of 320 Kbps (i.e., from the customer's end user's equipment up to the CDSL Access Service Connection Point) and a maximum downstream speed of 1.280 Mbps (from the CDSL Access Service Connection Point down to the customer's end user's equipment). These peak speeds are not guaranteed by the Telephone Company due to factors that may affect the actual speeds delivered, including loop distance from the Telephone Company Serving Wire Center, condition of the facilities, and limitations in the customer's network design. The Telephone Company does not provide customer premises equipment (CPE) in conjunction with the CDSL Access Service Offering.

ACCESS SERVICE

8. Digital Subscriber Line Access Services (Cont'd)8.1 Consumer Digital Subscriber Line Access Service (Cont'd)8.1.2 Limitations (Cont'd)

CDSL Access Service may not be used in conjunction with multi-point Special Access Service configurations as described in Section 7.1.3.

CDSL Access Service will be furnished where suitable facilities exist as determined by the Telephone Company. The Telephone Company shall also be responsible for management of spectrum utilization. Where, in the judgment of the Telephone Company, incremental use of existing facilities to provide CDSL Access Service is likely to cause interference with or otherwise degrade services being provided by adjacent facilities, the Telephone Company may limit the further provisioning of CDSL Access Service until such time as the risk of degradation to adjacent facilities has been mitigated. CDSL Serving Wire Centers and CDSL Access Service Connection Points will be identified in National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

Rates and regulations for CDSL Access Service are in addition to any rates and regulations that apply for the CDSL Access Service customer's end user's local exchange service.

Rates and regulations for Special Access Service will apply for the access service(s) provided between the telecommunications service provider's customer designated premises and the CDSL Access Service Connection Point, as described in Section 7, preceding, and Section 16, following.

8.1.3 Undertaking of the Telephone Company

The Telephone Company will provide CDSL Access Service at rates and charges as set forth in Section 16.6.1 as follows:

- (A) The Telephone Company will determine whether the customer's end user's local exchange service line is located in a normally suitable location for use with CDSL Access Service. Service will not be provided on lines that the Telephone Company determines are not suitable for CDSL Access Service or on lines that produce interference with other services provided by the Telephone Company.

ACCESS SERVICE

8. Digital Subscriber Line Access Services (Cont'd)8.1 Consumer Digital Subscriber Line Access Service (Cont'd)8.1.3 Undertaking of the Telephone Company (Cont'd)

- (B) The Telephone Company will provision and maintain CDSL Access Service from the CDSL Connection Point to the Point of Termination at the customer's end user's premises.

8.1.4 Obligations of the Customer

In addition to the regulations described in other sections of this tariff, the following provisions apply to CDSL Access Service:

- (A) The customer's end user must subscribe to local exchange service from the Telephone Company pursuant to the Telephone Company's general and/or local exchange service tariffs. End user's subscription to a customer's CDSL Access Service will be treated as a disconnection and reconnection of local exchange service and all applicable charges will apply. The Telephone Company will automatically disconnect CDSL Access Service when the associated local exchange service is disconnected for any reason.
- (B) The customer is responsible for providing the Telephone Company with the necessary information to provision CDSL Access Service (e.g., end user name, telephone number and premises address; end user contact name and telephone number and the contact name and telephone number of the telecommunications service provider with which the customer's CDSL Access Service will interconnect).
- (C) The customer is responsible for providing and maintaining all required customer premise equipment (CPE), which is compatible with CDSL Access Service.
- (D) The customer is responsible for marketing, ordering, installation, maintenance, repair, billing, and collections to the customer's end user.

ACCESS SERVICE

8. Digital Subscriber Line Access Services (Cont'd)8.1 Consumer Digital Subscriber Line Access Service (Cont'd)8.1.5 Rate Regulations

This section contains the regulations governing the rates and charges that apply for CDSL Access Service. Regulations governing the rates and charges for the Special Access Services used in conjunction with CDSL Access Service are specified in Section 7, preceding, and Section 16 following. The rates for CDSL Access Service will be billed to the customer of the CDSL Service.

(A) Moves

A move involves a change in the physical location of one of the following:

- The Point of Termination at the customer designated premises.
- The customer designated premises.

The provisions for moves of CDSL Access Service are the same as those described in Section 7.2.3, preceding.

(B) Temporary Suspension of Service

When a CDSL Access Service customer's CDSL Access Service is temporarily disconnected for any reason, the CDSL Line Charge monthly rate will not be suspended for the time period that the CDSL Access service is temporarily suspended.

8. Digital Subscriber Line Access Services (Cont'd)

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ACCESS SERVICE

8.1 Consumer Digital Subscriber Line Access Service (Cont'd)

8.1.5 Rate Regulations (Cont'd)

(C) Rate Categories

There are two types of rates and charges applicable to CDSL Access Service. These are a monthly rate and nonrecurring charges.

The monthly rate applies each month or fraction thereof for each local exchange service line equipped with CDSL Access Service.

A nonrecurring charge applies to qualify a loop for CDSL Access Service on a per local exchange service line basis, per customer request.

Nonrecurring Labor charges apply, per customer request, to condition a line for CDSL Access Service. CDSL Access Line conditioning ensures loops are free of repeaters, radio frequency (RF) filters, and load coils.

Rates and charges for CDSL Access Service are as set forth in 16.6.1, following.

ACCESS SERVICE

9. Directory Assistance Service

The Telephone Company will provide Directory Assistance (DA) Service to a customer from Directory Assistance Service locations (DA locations). DA locations are either primary or subtending. Primary DA locations are those to which terminating DA calls for the NPA first complete. Primary DA locations either process the telephone number request or, if necessary, forward the call to a subtending DA location for processing. DA service rates are assessed by the primary DA location only. Subtending DA locations are compensated by contractual arrangements between Telephone Companies.

9.1 General Description

Telephone Company provided DA Service is available to customers for their use in furnishing DA services to end users. It provides for the use of Directory Access Service between the premises of the ordering customer and the DA location(s), use of DA access equipment, and use of DA operators to provide telephone numbers.

Directory Access Service will be provided between the customer designated premises and the DA location by the Telephone Company. Rates and charges for Directory Assistance Service are set forth in 16.2.4 following.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.1 General Description (Cont'd)9.1.1 Description and Provision of Directory Assistance Service

A Telephone Company DA operator, when furnished a name and locality, will provide or attempt to provide the telephone number listed in the Telephone Company DA records associated with the name given, at the rates and charges as set forth in 16.2.4 following. The Telephone Company's contact with the customer's end user shall be limited to that effort necessary to process a customer's end user's request for a telephone number; and the Telephone Company will not transfer, forward or redial a customer's end user call to any other location for any purpose other than the provision of DA Service.

Each Directory Access Service will consist of the following:

- An Interface Group equipped with an available Premises Interface at the customer's designated premises as set forth in 14.3.1 following.
- Directory Transport between the premises of the ordering customer and the DA location.

When required by the Telephone Company, a separate Directory Access Service trunk group will be provided for DA Service for each NPA. Separate trunk groups will be required when the Telephone Company notifies the customer that the mechanized search of its data base and its mechanized operator practices require a mechanized identification of the NPA code for which the customer's end user desires DA information.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.1 General Description (Cont'd)9.1.1 Description and Provision of Directory Assistance Service (Cont'd)

Further, when an access tandem is available and is requested, the Directory Access Service will be provided, at customer choice:

- as a separate Directory Access Service trunk group, or
- in combination with Feature Group B or D Switched Access Service.

9.1.2 Ordering Options and Conditions(A) Ordering

Except as set forth following, Directory Assistance Service provided under a Special Order is subject to the ordering conditions as set forth in Section 5 preceding. The customer shall determine and order the directory assistance trunks and interface type of Directory Access Services it needs for DA Service.

When DA Service is initially ordered, the customer shall order the service for at least six months. Thereafter, additional service may be ordered for a minimum of six months. Not later than three months prior to the end of the six month period, the customer shall notify the Telephone Company if the service is to be discontinued at the end of the six month period. If no notice is received from the customer, the Telephone Company will automatically extend the service for another six months and all appropriate charges as set forth in 16.2.4 following will apply for another six months.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.1 General Description (Cont'd)9.1.2 Ordering Options and Conditions (Cont'd)(B) Cancellation of a Special Order

A customer may cancel a Special Order for DA Service on any date prior to the service date. The cancellation date is the date the Telephone Company receives written or verbal notice from the customer that the Special Order is to be cancelled. The verbal notice must be followed by written confirmation within 10 days.

When a customer cancels a Special Order for DA Service after the order date but prior to the start of service, the appropriate application of charges as set forth in Section 5. preceding apply for the Directory Access Service cancelled. In addition, a charge equal to any unrecoverable capital costs incurred by the Telephone Company will apply to the customer.

(C) Changes to Special Orders

When a customer requests changes to a pending order for DA Service, such changes will be undertaken if they can be accommodated by the Telephone Company. The appropriate application of charges as set forth in Section 5 preceding apply for the Directory Access Service changed. In addition, a charge equal to any other costs incurred by the Telephone Company because of the change will apply.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)

9.1 General Description (Cont'd)

9.1.3 Rate Categories

There are two rate categories which apply to Directory Assistance Service:

- Directory Assistance Service Call
- Directory Transport Service

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.1 General Description (Cont'd)9.1.3 Rate Categories (Cont'd)(A) Directory Assistance Service Call

The Directory Assistance Service Call rate category provides for the use of general DA Services such as operators and DA access equipment necessary to provide DA Service to a customer.

(B) Directory Access Service

Directory Transport Service provides the transmission facilities and transport termination between the premises of the ordering customer and the DA location. For purposes of determining Directory Transport Mileage, distance will be measured from the wire center that normally serves the customer premises to the DA location(s).

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.1 General Description (Cont'd)9.1.3 Rate Categories (Cont'd)(B) Directory Access Service (Cont'd)

Directory Transport is a two-way voice frequency transmission path composed of Switched Access Local Transport facilities. The two-way voice frequency path transports calls in the terminating direction (from the premises of the ordering customer to the DA location). The following rate elements, which are more fully described in 6.1.3(A) preceding, are applicable:

- Entrance Facility for the transport of the DA call from the customer's premises to the serving wire center of that premises.
- Direct Trunked Transport (i.e., Direct Trunked Facility and Direct Trunked Termination) for the transport of the DA call from the customer's serving wire center to the DA location without switching at a tandem, or from the serving wire center to the tandem.
- Tandem Switched Transport (i.e., Tandem Switched Facility, Tandem Switched Termination, and Tandem Switching) for the transport of the DA call from the customer's serving wire center to the DA location with switching at a tandem, or from the tandem to the DA location.
- Residual Interconnection Charge for the Local Transport costs that are not recovered by the Entrance Facility, Direct Trunked Transport, Tandem Switched Transport, Multiplexing, or dedicated signaling (i.e., SS7) rates.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.1 General Description (Cont'd)9.1.3 Rate Categories (Cont'd)(B) Directory Access Service (Cont'd)

- Multiplexing DS3 to DS1 Multiplexing charges apply when a High Capacity DS3 Entrance Facility or Direct Trunked Facility is connected with High Capacity DS1 Direct Trunked Transport. The DS3 to DS1 multiplexer will convert a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

DS1 to Voice Grade Multiplexing charges apply when a High Capacity DS1 Entrance Facility or Direct Trunked Facility is connected with Voice Grade Direct Trunked Transport. A DS1 to Voice Grade Multiplexing charge does not apply when a High Capacity DS1 Direct Trunked Facility is terminated at an electronic end office and only Switched Access Service is provided over the DS1 facility (i.e., Voice Grade Special Access channels are not derived). The DS1 to voice multiplexer will convert a 1.544 Mbps channel to 24 Voice Grade channels.

The customer will specify whether the Directory Access Service is to be routed directly to a DA location or through an access tandem switch appropriately equipped for DA measurement and served by DA trunks to the DA location when such an access tandem switch is available. The combination of Feature Group B or D Switched Access Service with DA Service will only be provided at such available and appropriately equipped access tandem switches.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.1 General Description (Cont'd)9.1.3 Rate Categories (Cont'd)(B) Directory Access Service (Cont'd)

When Directory Transport is provided using a Direct Trunked Transport to the DA location, no address signaling is provided. When Directory Transport is provided with the use of an access tandem switch, wink start-start pulsing signaling is provided at the access tandem switch. When access tandem routing is provided, the customer shall address each call to the DA location using NPA + 555-1212 or when required by the Telephone Company, 555-1212. Only NPA codes handled by the DA location served by the access tandem switch will be processed.

Directory Transport is provided with one of the Local Transport Interface Groups as set forth in 14.1.1 following.

9.1.4 Special Facilities Routing

A customer may request that Directory Access Service be provided via Special Facilities Routing. The regulations, rates and charges for Special Facility Routing (Avoidance, Diversity and Cable Only) are as set forth in Section 11 following.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.1 General Description (Cont'd)9.1.5 Design Layout Report

The Telephone Company will provide to the customer the makeup of the facilities and services provided under this section as Directory Access Service. This information will be provided in the form of a Design Layout Report similar to that as set forth in 6.1.5 preceding. Design Layout Reports for Directory Access Service will be provided only when specifically requested by the customer. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever the facilities provided for the customer's use are materially changed.

9.2 Undertaking of the Telephone Company9.2.1 Number of Telephone Number Requests

A maximum of two (2) requests for telephone numbers will be accepted per call to Directory Assistance and DA operators will not transfer, forward or redial the call to another location for any purpose other than the provision of DA Service.

9.2.2 Telephone Number Availability

A telephone number which is not listed in DA records will not be available to the customer's end user.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.2 Undertaking of the Telephone Company (Cont'd)9.2.3 Selection of DA Locations

The Telephone Company will specify the DA location which provides the DA Service for each Numbering Plan Area code (NPA). The DA locations are as shown in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

When it becomes necessary to change a DA location, as determined by the Telephone Company, the Telephone Company will notify the involved customers six months prior to the change. For such changes, the regulations as set forth in 2.1.7 preceding apply.

9.2.4 Transmission Specifications

Each Directory Assistance Service transmission path is provided with standard transmission specifications, either Type A or B, as set forth respectively in 14.1.2(D) and (E) following. The specifications associated with the parameters are guaranteed to the DA location. The standard for a particular transmission path is dependent upon the following:

- Whether Directory Access Service is provided in combination with Feature Group B, or D Switched Access Service, or

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.2 Undertaking of the Telephone Company (Cont'd)9.2.4 Transmission Specifications (Cont'd)

- When not provided in combination with Switched Access Service, whether routed direct or via an access tandem switch

The available transmission specifications are set forth in 14.3.2 following.

9.2.5 Testing(A) Acceptance Testing

The acceptance testing capabilities for Directory Access Service traffic routed through an access tandem are the same as those for the associated Feature Group D end office switching. The acceptance testing for Directory Access Service traffic routed directly, or routed in separate trunk groups through an access tandem, to the DA location, will be the same as that for Switched Access Service as set forth in 6.2.4 preceding.

(B) Routine Testing

Routine testing capabilities for Directory Access Service traffic routed through an access tandem are the same as those for the associated Feature Group D end office switching. Routine testing capabilities for Directory Access Service traffic routed directly, or routed in a separate trunk group through an access tandem, to the DA location, will be as set forth in 13.3.1(A)(3) following (Additional Manual Testing).

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.2 Undertaking of the Telephone Company (Cont'd)9.2.6 Determination of Number of Transmission Paths

The number of Directory Transport transmission paths provided is based on the customer's order and is determined by the Telephone Company in a manner similar to Switched Access Service transmission paths as set forth in 6.2.5 preceding.

9.2.7 Supervisory Signaling

Trunk side switching is provided at the DA Service access location. The DA Service access location will provide trunk answer and disconnect supervisory signaling.

9.3 Obligations of the Customer

In addition to the obligations of the customer as set forth in 2.3 preceding, the customer has certain specific obligations concerning the use of Directory Assistance Service. These obligations are as follows:

9.3.1 Jurisdictional Reports

Directory Transport may, at the option of the customer, be provided for both interstate and intrastate communications. When the customer requests such mixed access, the interstate Directory Transport charges will be determined by the Telephone Company using the data furnished by the customer as set forth in 2.3.11 preceding.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.3 Obligations of the Customer (Cont'd)9.3.2 Supervisory Signaling

The customer facilities at the premises of the ordering customer shall provide the necessary on-hook and off-hook supervision.

9.3.3 Ordering of Separate Trunk Groups

When requested by the Telephone Company, the customer shall order a separate trunk group for DA Service for each NPA. The conditions when the customer will be requested to order separate trunk groups for each NPA are set forth in 9.1.1 preceding.

9.3.4 Notice of Discontinuance of Service

DA Service is ordered and renewed for a minimum period of six months at a time, as set forth in 9.1.2(A) preceding. Not later than three months prior to the end of any six month period, the customer shall notify the Telephone Company if the service is to be discontinued at the end of that period.

9.4 Rate Regulations

This section contains the specific regulations governing rates and charges that apply for Directory Assistance Service.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)

9.4 Rate Regulations (Cont'd)

9.4.1 Nonrecurring Charges

Nonrecurring charges for DA Service are one-time charges that apply for a specific work activity (i.e., installation, change to an existing service and DA Service rearrangements).

(A) Installation of Service

Nonrecurring Local Transport Installation and Direct Trunked Transport Activated charges as set forth in Section 16 following are applied as set forth in 6.4.1(B) (1) preceding to each Directory Access Service installed.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.4 Rate Regulations (Cont'd)9.4.1 Nonrecurring Charges (Cont'd)(B) DA Service Rearrangements

All changes to existing services other than changes involving administrative activities will be treated as a discontinuance of the existing service and an installation of a new service.

9.4.2 Directory Assistance Service Call Charge

The Directory Assistance service call charge, as set forth in 16.2.4(A) following, applies for each call to DA Service. A call is a call which has been answered by a DA operator. The charge applies whether or not the DA operator provides the requested telephone number. The number of calls answered by DA operators will be accumulated by Telephone Company measuring equipment. A credit for the provision of an incorrect telephone number will be applied as set forth in 9.4.8 following.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.4 Rate Regulations (Cont'd)9.4.3 Directory Transport Service

The Local Transport charges set forth in 16.2 following are also applicable to Directory Transport Service and will be assessed on the same basis as the Switched Access Local Transport rate elements set forth in 6.1.3(A) preceding:

- Entrance Facility
- Direct Trunked Transport
- Tandem Switched Transport
- Multiplexing
- Residual Interconnection Charge

9.4.4 Minimum Periods

The minimum period for which DA Service and the Directory Access Service is provided and for which charges apply is six months. A minimum period of six months applies for each additional period of service ordered or extended.

If DA Service is discontinued prior to the end of each six month period, the charges that apply for the remaining months are the non-recoverable costs. Such costs include the non-recoverable cost of equipment and material ordered, provided or used, plus the non-recoverable cost of installation and removal including the costs of engineering, labor supervision, transportation, rights-of-way and other associated costs less estimated net salvage.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)

9.4 Rate Regulations (Cont'd)

9.4.4 Minimum Periods (Cont'd)

The minimum period for which High Capacity DS3 Entrance Facilities or High Capacity or Direct Trunked Transport is provided is twelve months.

9.4.5 Minimum Monthly Charge

DA service is subject to a minimum monthly charge. The minimum monthly charge is calculated as follows:

The minimum monthly charge for Directory Assistance Service calls is the charge as set forth in 16.2.4(A) following for the actual usage for the month.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.4 Rate Regulations (Cont'd)9.4.5 Minimum Monthly Charge (Cont'd)

For Directory Transport rate element, the minimum monthly charge the customer will be assessed will be the usage charges based on actual usage. For flat rated Directory Transport rate elements, the minimum monthly charge is the sum of the recurring charges prorated to the number of days or major fraction of days based on a 30-day month. Rates for Directory Transport are set forth in 16.2.4(B) following.

9.4.6 DA Service Rearrangements

Nonrecurring charges apply for service rearrangements. Service rearrangements and the regulations concerning the application of associated nonrecurring charges are as set forth in 6.4.1(B)(3) preceding.

9.4.7 Moves

A move involves a change in the physical location of the point of termination at the customer designated premises or of the customer designated premises. Moves will be treated as set forth in 6.4.4 preceding and all associated nonrecurring charges will apply. Minimum period requirements will be established at the new location as set forth in 6.4.4 preceding. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued service.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.4 Rate Regulations (Cont'd)9.4.8 Credit Allowance for Service Outages and Incorrect Numbers

- (A) When the DA location or DA operator equipment or terminals are out of service due to a Telephone Company equipment failure a credit allowance is provided. When an incorrect number is provided and a customer DA call has been answered by a DA operator, a credit allowance is provided. The credit allowances provided is equal to the rate for a Directory Assistance Service Call. The credit will be applied to the customer's charges.
- (B) In addition to the credit as set forth in (A) preceding, when a DA operator or DA equipment provides an incorrect number for a call and the customer reports such occurrences to the Telephone Company, a credit allowance for the Switched Access portion of the call in the originating LATA of such DA call will apply. The credit will be as set forth in (C) following. When the customer reports such a call and the number requested, the number provided and the reason the number provided is incorrect, the number of calls for which a credit will apply will be developed by the Telephone Company in cooperation with the customer.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)9.4 Rate Regulations (Cont'd)9.4.8 Credit Allowance for Service Outages and Incorrect Numbers (Cont'd)

- (C) When a DA call is not completed due to the failure of Directory Access Service to DA locations, DA access equipment or DA operator activities, a credit allowance for the Switched Access Service portion in the originating LATA of such DA call will apply. When the customer reports such a call and DA number dialed, time of the call and the date of the call, the number of calls for which a credit will apply will be developed by the Telephone Company in cooperation with the customer. The credit will be as set forth in 16.2.4(C) following. Credit allowances for other service interruptions will be provided as set forth in 2.4.4 preceding.

ACCESS SERVICE

9. Directory Assistance Service (Cont'd)

(S)(x)

9.5. Directory Assistance Database Service

The Telephone Company will provide standard directory listings to providers of Directory Assistance Service in an agreed upon format within 30 days of receipt of a valid request. Agreed upon customized listing formats shall be provided within 90 days of receipt of a valid format definition.

The Telephone Company owns and maintains a database of its telephone end users with the following information:

- (1) end user name,
- (2) end user address, and
- (3) end user published or non-listed telephone number.

The Telephone Company uses the Directory Assistance List Information in its database to provide Directory Assistance (DA) Service to individuals who call the Telephone Company's DA service to obtain such information.

The Telephone Company will provide to the requesting DA provider the Directory Assistance List Information as contained in the Telephone Company's DA database for use solely to provision Directory Assistance services.

(S)(x)

(D)(Y)

(D)(Y)

The DA List Information may not be used for marketing or other purposes. The DA Provider may not provide information contained in the Directory Assistance List to any unaffiliated third party, except in the provision of Directory Assistance Service to that third party.

(S)(x)

The Telephone Company shall not be liable for errors or omissions contained in the Directory Assistance Provider database.

(S)(x)

(Y) Issued under authority of Special Permission No. 00-118.

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ACCESS SERVICE

9. Directory Assistance Service (Cont'd)

(S)(x)

9.5. Directory Assistance Database Service (Cont'd)

1. The Telephone Company will provide Directory Assistance Database Service in two arrangements:

- (a) A one-time purchase of a universal list of all Telephone Company listed and non-listed end user's name, address (when available) and telephone number; or
- (b) Daily updates of added, changed, or deleted directory listings of all Telephone Company listed and non-listed end user's name, address (when available) and telephone number, charged monthly.

(S)(x)

(D)

(D)

2. Non-published and non-Telephone Company end user information will not be provided in the Directory Assistance List information.

(T)

(S)(x)

3. The Telephone Company will charge the Directory Assistance Provider per the rates defined in Section 16.2.5.

(T)

4. The Telephone Company will utilize reasonable efforts to meet the transmission format requested by the DA Provider. However, if the format requested requires additional programming or development, the DA Provider will be required to pay all costs associated with programming or development of the format. If the requested format is such that the Telephone Company is unable to provide the data in that format, the requesting provider will be required to accept the data in an already established format.

(T)

(S)(x)

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